



# **RYE PARK WIND FARM**

## *Year 2 Compliance Report*

*(EPBC 2020/8837)*

February 2024



## Rye Park Wind Farm

Document Title: Rye Park Wind Farm Year 2 Compliance Report – EPBC 2020/8837

Revision: 1

Date: 13/02/2024

### Document History and Status

Revision	Date	Description	By	Review	Approved
1	13/02/2023	Final	J. Beckett	A. Galland	J. Shuker

### Declaration of Accuracy

I declare that:

1. To the best of my knowledge, all the information contained in, or accompanying the Rye Park Wind Farm Year 2 Compliance Report – EPBC 2020/8837 is complete, current and correct.
2. I am duly authorised to sign this declaration on behalf of the Applicant / approval holder.
3. I am aware that:
  - a) Section 490 of the *Environment Protection and Biodiversity Conservation Act 1999* (Cth) (EPBC Act) makes it an offence for an approval holder to provide information in response to an approval condition where the person is reckless as to whether the information is false or misleading.
  - b) Section 491 of the EPBC Act makes it an offence for a person to provide information or documents to specified persons who are known by the person to be performing a duty or carrying out a function under the EPBC Act or the *Environment Protection and Biodiversity Conservation Regulations 2000* (Cth) where the person knows the information or document is false or misleading.
  - c) The above offences are punishable on conviction by imprisonment, a fine or both.

Signed:



Date: 13 February 2024

Full Name & Title: James Beckett, Manager, Planning and Environment

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## 1.0 Introduction

Approval 2020/8837 (EPBC Approval) was granted on 1 June 2021 under the *Environment Protection and Biodiversity Act 1999 (Cth)* (EPBC Act) to Rye Park Renewable Energy Pty Ltd (ACN 601 541 931) (the Approval Holder) authorising the Approval Holder to “construct and operate a wind farm with up to 77 wind turbines, and associated infrastructure at Rye Park, New South Wales”, subject to conditions (the Action). A variation to the EPBC Approval was subsequently approved on 30 June 2022.

The purpose of this document is to demonstrate that there has been compliance with the conditions of the EPBC approval for the Action and to satisfy Condition 29 of the EPBC Approval, which states:

*The approval holder must prepare a compliance report for each 12 month period following the date of commencement of the action, or as otherwise agreed to in writing by the Minister.*

*The approval holder must:*

- a. publish each compliance report on the website within 60 business days following the relevant 12 month period;*
- b. notify the department by email that a compliance report has been published on the website and provide the link for the compliance report within five (5) business days of the date of publication;*
- c. keep all compliance reports publicly available on the website until this approval expires;*
- d. exclude or redact sensitive ecological data from compliance reports published on the website; and*
- e. where any sensitive ecological data has been excluded from the version published, submit the full compliance report to the department within five (5) business days of publication.*

The Approval Holder that is undertaking the Action, which is further described in Section 2.0, is a subsidiary of a portfolio of companies that are trading as Tilt Renewables.

This is the second annual compliance report, which in accordance with Condition 29 of the EPBC Approval, seeks to demonstrate how the Project had complied with the conditions of the EPBC Approval for the period between on **16 November 2022 and 15 November 2023** (the Reporting Period). The annual compliance report has been prepared with reference to the *Annual Compliance Report Guidelines* (Commonwealth of Australia, 2014).

The compliance report will be published on the Approval Holder’s website ([www.ryeparkwf.com.au](http://www.ryeparkwf.com.au)) until the expiration of the EPBC Approval.

## 2.0 The Action

The proposed action as described by the EPBC Approval is:

*To construct and operate a wind farm with up to 77 wind turbines, and associated infrastructure at Rye Park, New South Wales [see EPBC Act referral 2020/8837 and variation request letter dated 31 May 2022]*

The Action is also subject to relevant State approvals with a Development Consent for the Action (SSD-6693-MOD2) being granted under the *Environmental Planning and Assessment Act 1979* by the NSW Planning Assessment Commission (now known as the Independent Planning Commission) on 22 May 2017, with a modification approved on 15 April 2021. A further modification to the Development Consent was approved by the Department of Planning and Environment on 23 September 2022.

### 2.1 The Project

The Action is located to the east of Rye Park, to the north-west of Yass and south-east of Boorowa, in New South Wales (NSW) (refer to Figure 1). It is located within the Yass Valley, Hilltops and Upper Lachlan Shire Council local government areas.

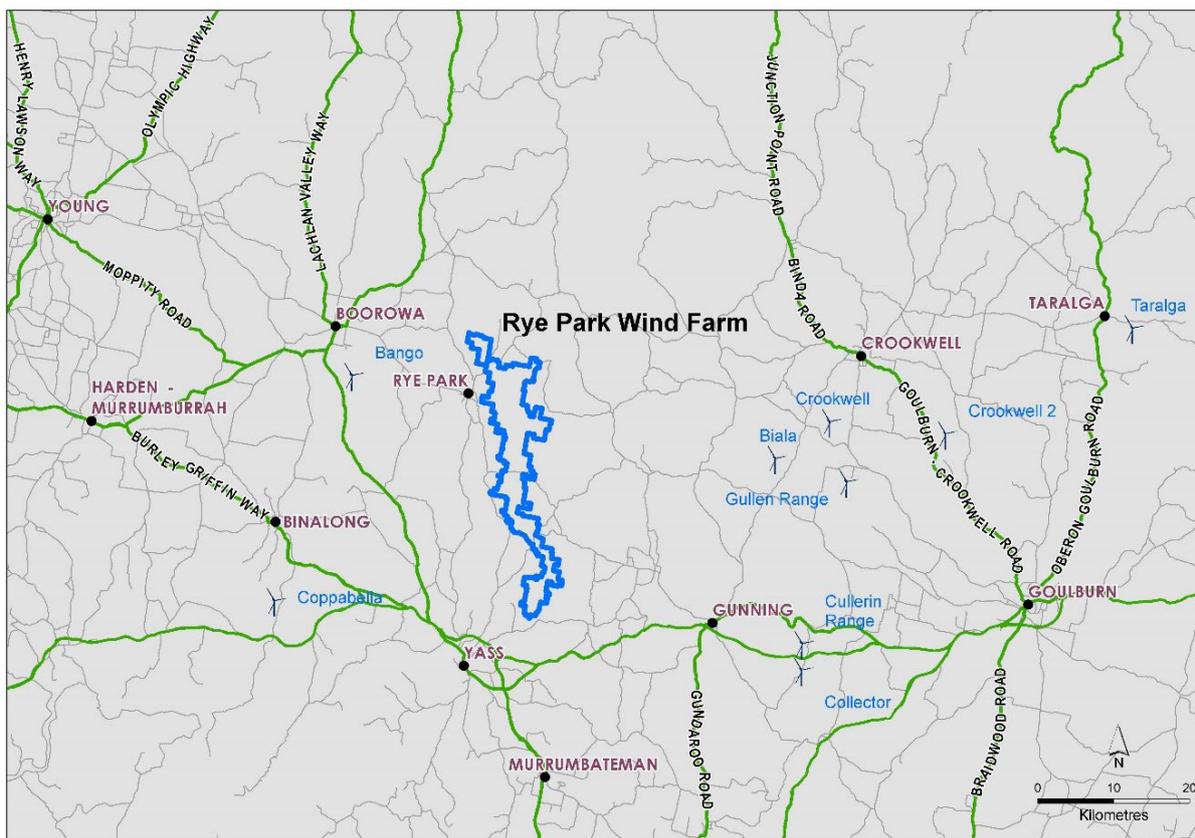


Figure 1: Site Location

The main components of the Action are as follows:

- 66 wind turbines, each with:
  - a capacity to generate up to approximately 6 MW
  - three blades mounted on a tubular steel tower, with a combined height of blade and tower limited to a maximum tip height of 200 metres

- crane hardstand area, and related turbine lay down area;
- A new 33 kV wind farm collection substation in the northern section of the Project site;
- A new 330 kV wind farm connection substation located adjacent to the existing TransGrid 330 kV transmission line in the southern section of the Project site;
- A temporary construction compound at the northern section of the Project site;
- A temporary construction compound to facilitate the upgrades on the TransGrid owned existing 330kV Transmission Line at the southern section of the Project site;
- A new overhead powerline approximately 30km in length, rated at up to 330 kV (nominal) capacity, running north-south along the length of the wind farm between the two substations. The powerline would be mounted on a single pole type structure and will either be single-circuit or double-circuit as required;
- Underground and overhead 33 kV electrical cabling linking the wind turbines to the on-site collection substations and connection substation;
- Operation and maintenance facility incorporating a control room and equipment storage at the northern section of the Project site;
- Temporary concrete batching plants and construction facilities;
- Access tracks required for each wind turbine and the related ancillary facilities above;
- Minor upgrades to local roads, as required for the delivery of the wind turbines; and
- Three temporary meteorological masts and two permanent monitoring masts for wind speed verification, weather and general monitoring purposes. The permanent monitoring masts may be either static guyed or un-guyed structures and will be to a minimum height of the wind turbine hubs (119m).

The Action will include three key phases, including construction, operations and decommissioning. The Action will be constructed in a single stage and is expected to have an operational life of 25-30 years.

## 2.2 Works Undertaken (During Reporting Period)

The Action is currently under construction with the Action commencing on 16 November 2021. The following key activities have been undertaken in the Reporting Period:

- Associated road maintenance and rectification activities of both upgraded roads and other public roads (with the initial road upgrades complete prior to the Reporting Period);
- The use of temporary construction facilities, including construction compound, construction laydown areas and on-site concrete batching operations;
- Construction and use of internal wind farm access tracks, with 21km of a total of 75km of access tracks installed;
- Bulk earthworks and installation of wind turbine foundations, with 44 of the foundations being poured and backfilled;
- Erection, mechanical completion and progressive commissioning of the wind turbines, with 47 wind turbines fully erected and 34 wind turbines commissioned (of the total 66 wind turbines proposed as part of the Action);
- Installation of the 33kV and 330kV overhead transmission line foundations with 73 of a total of 120 foundations for the 330kV transmission line complete and 33 of a total of 53 of the 33kV transmission line complete, with stringing and commissioning of the overhead transmission lines complete;



- Installation of 67km of underground 33kV electrical cabling (from a total of 90 km);
- Civil, structural and electrical works on the northern and southern substations and operations and maintenance facility with these facilities being ready for the commissioning of the Action; and
- Progressive rehabilitation of temporary civil disturbance areas required for construction of the Action.



### 3.0 Approval Conditions Compliance

The Approval Holder has demonstrated how the Action is compliant with the conditions of the EPBC Approval in Table 1.

**Table 1: Approval Conditions Compliance**

Condition Number	Approval Condition	Compliance Status	Comments
<b>Part A – Conditions specific to the action</b>			
<b>Clearance Limits</b>			
1	The approval holder must not construct more than 77 wind turbines within the <b>project area</b> .	Condition fully satisfied	<p>In accordance with Condition 12 of the EPBC Approval, the Approval Holder submitted detailed plans of the final layout to the Department on 23 October 2021. These plans identified the intention of the Approval Holder to construct and operate 66 wind turbines as part of the Action, with no further amendment to the number of wind turbines proposed since submission of the final layout.</p> <p>It is noted that the Approval Holder did submit revised Final Layout Plans to the Department on 31 May 2022 as part of an updated Rye Park Wind Farm Biodiversity Offset Strategy (Revision 3, dated 31 May 2022), which was submitted with a request to vary the EPBC Approval. These revised Final Layout Plans, which were subsequently approved by the Department on 14 November 2022 as part of the Rye Park Wind Farm Biodiversity Offset Strategy (Revision 4, dated 26 September 2022) sought to include minor amendments to the wind farm within the project area and did not make amendment to the number of wind turbines proposed as part of the Action.</p>
2	The approval holder must not <b>clear</b> within the <b>project area</b> , except: <ul style="list-style-type: none"> <li>a. within the area labelled as 'Project area - Road Upgrades' as shown on the maps in <a href="#">Appendix A</a> and <a href="#">Appendix B</a>; and</li> <li>b. <b>HBTs</b></li> </ul> unless the Offset Strategy required under condition 13 has been approved by the <b>Minister</b> .	Condition fully satisfied	<p>The Rye Park Wind Farm Biodiversity Offset Strategy (Revision 2, dated 8 November 2021) was approved by a delegate of the Minister for the Environment on 12 November 2021, prior to the commencement of the action (and clearing within the project area).</p> <p>Notice was provided to the Department on 16 November 2021 that the action commenced on 16 November 2021 in accordance with Condition 23(a).</p>
3	The approval holder must not <b>clear</b> more than: <ul style="list-style-type: none"> <li>a. 35.73 ha of <b>Box Gum Woodland</b>;</li> <li>b. 20.08 ha of <b>Superb Parrot habitat</b>;</li> <li>c. 233 <b>HBTs</b>;</li> <li>d. 85.28 ha of <b>Golden Sun Moth habitat</b>; and</li> <li>e. 43.29 ha of <b>Striped Legless Lizard habitat</b></li> </ul> within the <b>project area</b> .	Condition fully satisfied	<p>In accordance with the approved Rye Park Wind Farm Biodiversity Management Plan (Revision G, dated 26 September 2022), the Approval Holder has specific statutory performance criteria, which align with the relevant clearing limits identified in Condition 3 of the EPBC Approval. Spatial data of actual disturbance is collected and periodically reported to the NSW Department of Planning, Housing and Infrastructure to verify compliance with the relevant clearing limits.</p>

Condition Number	Approval Condition	Compliance Status	Comments
			<p>Civil disturbance associated with the Action was complete in August 2023, with the surveyed spatial information of the actual disturbance areas subsequently validated by the Approval Holder and submitted to the Department on 28 October 2023 in accordance with Condition 15 of the EPBC Approval.</p> <p>The final surveyed areas of actual disturbance associated with the construction of the Action, relevant to the ecological entities listed in Condition 3 of the EPBC Approval, is as follows:</p> <ul style="list-style-type: none"> <li>a. 27.08ha of Box Gum Woodland (a reduction of 8.65ha from the relevant limit);</li> <li>b. 15.88ha of Superb Parrot habitat (a reduction of 4.20ha from the relevant limit);</li> <li>c. 32 HBTs (a reduction of 201 from the relevant limit);</li> <li>d. 65.22ha of Golden Sun Moth habitat (a reduction of 20.06ha from the relevant limit); and</li> <li>e. 37.57ha of Striped Legless Lizard habitat (a reduction of 5.72ha from the approved limit).</li> </ul> <p>In accordance with the Rye Park Wind Farm Biodiversity Offset Strategy, the biodiversity calculations for the final disturbance areas outlined above have been re-calculated based on the Final Layout Plans for the Action (refer to <b>Attachment 1</b>).</p> <p>Following the conclusion of the civil disturbance (and commencement of progressive rehabilitation of the temporary disturbance areas), no further clearance is proposed to the relevant entities listed in Condition 3 during the finalisation of the construction phase or the operation of the Action.</p>
4	The approval holder must not <b>clear</b> any confirmed <b>Superb Parrot nest trees</b> within the <b>project area</b> .	Condition fully satisfied	<p>Project inspections and the final disturbance areas that form part of the Final Layout Plans confirm that no confirmed Superb Parrot nest trees have been impacted by the Action.</p> <p>Where relevant, during construction of the Action, confirmed Superb Parrot nest trees near to the project works areas have been identified and protected with orange hi-vis flagging to ensure that the trees are not impacted.</p>
<b>Management Plans</b>			

Condition Number	Approval Condition	Compliance Status	Comments
5	To mitigate unavoidable <b>impacts to protected matters</b> , the approval holder must submit a Biodiversity Management Plan (BMP) for the <b>Minister's</b> approval prior to the <b>commencement of the action</b> .	Condition fully satisfied	The Rye Park Wind Farm Biodiversity Management Plan (Revision F, dated 25 October 2021) was submitted to the Department on 2 November 2021 prior to the commencement of the Action on 16 November 2021. The Plan was subsequently approved by a delegate of the Minister for the Environment on 4 November 2021.
6	The approval holder must not <b>commence the action</b> unless the <b>Minister</b> has approved the BMP in writing. The approval holder must implement the approved BMP.	Condition fully satisfied	
7	<p>The BMP must be consistent with the <b>department's Environmental Management Plan Guidelines</b>, and must include:</p> <ol style="list-style-type: none"> <li>The BMP environmental objectives, relevant <b>protected matters</b> and a reference to <b>EPBC Act</b> approval conditions to which the BMP refers;</li> <li>A table of commitments made in the BMP to achieve the objectives, and a reference to where the commitments are detailed in the BMP;</li> <li>Reporting and review mechanisms, and documentation standards to demonstrate compliance with the BMP;</li> <li>An assessment of risks to achieving the BMP environmental objectives and strategies that will be applied to manage risks;</li> <li><b>Impact</b> avoidance, mitigation and/or repair measures, and their timing, including:           <ol style="list-style-type: none"> <li>details of pre-clearance surveys;</li> <li>rehabilitation and revegetation measures;</li> <li>erosion and sediment control measures;</li> <li>weed management measures;</li> <li>management measures to prevent the introduction or spread of <i>Phytophthora cinnamomi</i>;</li> <li>measures to protect <b>retained Superb Parrot nest trees</b>;</li> <li>details of buffer zones or 'no-go zones' within the <b>project area</b>;</li> </ol> </li> <li>A monitoring program, which must include:           <ol style="list-style-type: none"> <li>measurable performance indicators;</li> <li>the timing and frequency of monitoring to detect triggers and changes in the performance indicators;</li> <li>trigger values for corrective actions; and</li> <li>proposed corrective actions if trigger values are reached.</li> </ol> </li> <li>A protocol for <b>clearing HBTs</b> to prevent harm or injury to any <b>EPBC Act listed threatened species</b>; and</li> <li>Any links to other <b>plans</b> or conditions of approval (including State approval conditions).</li> </ol>	Condition fully satisfied	<p>In assessing and approving the Rye Park Wind Farm Biodiversity Management Plan, the Department had assessed the Plan against the requirements of Condition 7 of the EPBC Approval and determined that the Plan sufficiently addresses the relevant obligations.</p> <p>Section 1.2 of the Biodiversity Management Plan identifies where each requirement of Condition 7 of the EPBC Approval has been addressed in the Plan.</p> <p>The Biodiversity Management Plan has been implemented by the Approval Holder and its contractors. The Approval Holder has undertaken inspections and monitoring to verify the implementation of the Plan by its contractors and does not note any non-compliance with this condition.</p> <p>An independent audit of the State Development Consent undertaken in May 2023 included a review of adequacy of a several environmental management plans, including the Biodiversity Management Plan. The audit report is appended as <b>Attachment 2</b>, with the report noting:</p> <p><i>"The systems which Tilt, Zenviron and Vestas have in place, the documentation reviewed and observations on site are all indicative that all reasonable and feasible measures are being implemented to minimise material harm to the environment from the construction of the plant. It is too early to comment on operational or decommissioning impacts. Nevertheless, there are opportunities for improvement in these systems..."</i> (Section 3.2, Page 7)</p> <p>The Approval Holder has acted on the recommendations of the independent audit and responded to the relevant State Department on the close-out of the opportunities for improvement.</p>

Condition Number	Approval Condition	Compliance Status	Comments
8	To minimise <b>impacts to EPBC Act listed bird and bat species</b> during <b>commissioning</b> and <b>operation</b> of the wind farm, the approval holder must submit a Bird and Bat Adaptive Management Plan (BBAMP) for the <b>Minister's</b> approval prior to the commencement of <b>commissioning</b> . The BBAMP must ensure that the <b>commissioning</b> and <b>operation</b> of wind turbines is managed, monitored and limited such that <b>impacts to EPBC Act listed bird and bat species</b> are reliably detected, quantified, reported and responded to.	Condition fully satisfied	The Rye Park Wind Farm Bird and Bat Adaptive Management Plan (Revision 8, dated 15 May 2023) ( <b>BBAMP</b> ) was submitted to the Department on 15 May 2023 and approved by a delegate of the Minister for the Environment and Water on 8 June 2023.  The Approval Holder commenced commissioning of Action on 20 July 2023. Notification of the commencement of commissioning was provided to the Department on 23 July 2023 in accordance with Condition 23(b) (refer to <b>Attachment 3</b> ).
9	The approval holder must not commence <b>commissioning</b> unless the <b>Minister</b> has approved the BBAMP in writing. The approval holder must implement the approved BBAMP.	Condition fully satisfied	
10	The BBAMP must be consistent with the <b>department's Environmental Management Plan Guidelines</b> , and must include: <ol style="list-style-type: none"> <li>The environmental objectives of the BBAMP, relevant <b>EPBC Act protected matters</b> and a reference to where each relevant <b>EPBC Act</b> approval condition is addressed in the BBAMP;</li> <li>A table of commitments made in the BBAMP to achieve the environmental objectives, and a reference to where the commitments are detailed in the BBAMP;</li> <li>An assessment of risks to achieving the BBAMP environmental objectives and strategies that will be applied to manage risks;</li> <li>A proposed program of monitoring to detect or reliably estimate all collisions with <b>EPBC Act listed bird and bat species</b>. The approval holder must provide evidence that the proposed methods, frequency and timing of monitoring will provide statistically reliable detection or reliable estimates of all collisions with <b>EPBC Act listed bird and bat species</b>. The monitoring program must specify:               <ol style="list-style-type: none"> <li>measurable performance indicators;</li> <li>triggers for corrective actions;</li> <li>the timing and frequency of monitoring to detect triggers and changes in the performance indicators;</li> <li>mortality monitoring, including carcass searches, carcass persistence trials and scavenger trials methodologies;</li> <li>proposed corrective actions if triggers are reached, including, but not limited to, ceasing operation of specific wind turbines;</li> </ol> </li> <li>Measures, and their timing, to avoid and mitigate <b>impacts</b>, including, but not limited to:               <ol style="list-style-type: none"> <li>measures to minimise <b>impacts</b> associated with lighting (such as preventing the attraction of <b>EPBC Act listed bird and bat species</b> to locations with high risk of collision with turbines);</li> </ol> </li> </ol>	Currently compliant with condition	In assessing and approving the BBAMP, the Department had assessed the Plan against the requirements of Condition 10 of the EPBC Approval and determined that the Plan sufficiently addresses the relevant obligations.  Section 1.2 of the BBAMP identifies where each requirement of Condition 10 of the EPBC Approval has been addressed in the Plan.  Following the commencement of commissioning of the Action, the Approval Holder has commenced certain monitoring and survey actions as outlined in the BBAMP. The Approval Holder notes that no impact trigger thresholds have been met in relation to EPBC Act listed species and that the Plan is required to be reviewed with the Department at the commencement of operation of the Action.

Condition Number	Approval Condition	Compliance Status	Comments
	<ul style="list-style-type: none"> <li>ii. measures to minimise the risks to <b>EPBC Act listed bird and bat species</b> from turbine strike (such as bird and insect deterrents, low wind speed curtailment, ceasing operation of specific wind turbines during specific times, and/or permanent decommissioning of specific turbines); and</li> <li>iii. procedures for dealing with any <b>EPBC Act listed bird and bat species</b> that require relocation or are injured within the <b>project area</b>;</li> <li>f. How the effectiveness of mitigation measures will be monitored and analysed, and decisions made regarding adaptive measures to achieve the environmental objectives of the BBAMP;</li> <li>g. Reporting and review mechanisms, and documentation standards to demonstrate compliance with the BBAMP. This must include how monitoring data and analysis of monitoring results will be reported and published, and a procedure for reporting the death or injury of any <b>EPBC Act listed bird and bat species</b> to the department;</li> <li>h. A proposal for how any residual significant impact to an <b>EPBC Act listed bird and bat species</b> will be offset by the approval holder in accordance with the <b>EPBC Act Environmental Offsets Policy</b>.</li> </ul>		
11	The approval holder must provide an evaluation, prepared by a <b>suitably qualified person</b> , of the effectiveness of the measures implemented to avoid and mitigate <b>impacts to EPBC Act listed bird and bat species</b> within the <b>project area</b> from turbine strike, and report against triggers for corrective actions, in each compliance report required under condition 29.	Currently compliant with condition	A report has been prepared by Umwelt (Australia) Pty Limited (dated 12 December 2023; refer to <b>Attachment 4</b> ), which evaluates the effectiveness of the interim implementation of the BBAMP. The report notes the preliminary nature of the implementation of the survey and search program and recommends review of the BBAMP is informed by ongoing surveys as part of the approved BBAMP.
<b>Offsets</b>			
12	Prior to the <b>commencement of the action</b> , the approval holder must submit to the <b>Minister</b> detailed plans of the <b>final layout</b> .	Condition fully satisfied	<p>In accordance with Condition 12 of the EPBC Approval, the Approval Holder submitted detailed plans of the final layout to the Department on 23 October 2021.</p> <p>It is noted that the Approval Holder did submit revised Final Layout Plans to the Department on 31 May 2022 as part of an updated Rye Park Wind Farm Biodiversity Offset Strategy (Revision 3, dated 31 May 2022), which was submitted with a request to vary the EPBC Approval. These revised Final Layout Plans were subsequently approved by the Department on 30 June 2022 as part of the Rye Park Wind Farm Biodiversity Offset Strategy (Revision 3, dated 31 May 2022).</p>

Condition Number	Approval Condition	Compliance Status	Comments
13	To compensate for <b>impacts to protected matters</b> , prior to <b>commencement of the action</b> , the approval holder must submit an Offset Strategy for approval by the <b>Minister</b>	Condition fully satisfied	<p>The Rye Park Wind Farm Biodiversity Offset Strategy (Revision 2, dated 8 November 2021) was submitted to the Department on 8 November 2021 prior to the commencement of the Action on 16 November 2021. Following submission of the Plan, it was subsequently approved by a delegate of the Minister for the Environment on 12 November 2021.</p> <p>It is noted that the Approval Holder did submit a revised Biodiversity Offset Strategy on 31 May 2022 (Revision 3, dated 31 May 2022), which was submitted with a request to vary the EPBC Approval. The revised Biodiversity Offset Strategy was subsequently approved on 30 June 2022 and a further request to amend the Biodiversity Offset Strategy (Revision 4, dated 26 September 2022) was approved by a delegate of the Minister for the Environment on 14 November 2022. This further amendment was made in relation to varying state-based approval conditions for the Action.</p>
14	<p>The Offset Strategy must be prepared by a <b>suitably qualified expert(s)</b> and must:</p> <ol style="list-style-type: none"> <li>based on the areas of habitat for <b>protected matters</b>, including <b>HBTs</b>, to be <b>impacted</b> in the <b>final layout</b>, propose offsets to compensate for <b>impacts</b> to: <ol style="list-style-type: none"> <li><b>Box Gum Woodland;</b></li> <li><b>Superb Parrot habitat, including HBTs;</b></li> <li><b>Golden Sun Moth habitat; and</b></li> <li><b>Striped Legless Lizard habitat</b></li> </ol> in accordance with clauses 6.2 and 6.6A of the Biodiversity Conservation Regulation 2017 (NSW); and </li> <li>provide the <b>Biodiversity Assessment Method</b> credit calculations used to determine the required number of <b>like-for-like biodiversity credits</b> to be <b>retired</b> to compensate for <b>impacts to protected matters</b>.</li> </ol>	Condition fully satisfied	<p>In assessing and approving the Rye Park Wind Farm Biodiversity Offset Strategy, the Department had assessed the Plan against the requirements of Condition 14 of the EPBC Approval and determined that the Plan sufficiently addresses the relevant obligations.</p> <p>Section 2.0 of the Biodiversity Offset Strategy identifies where each requirement of Condition 14 has been addressed in the Plan.</p>
15	Prior to the commencement of <b>operation</b> , the approval holder must submit to the <b>Minister</b> detailed plans of the <b>completed layout</b> . If <b>impacts to protected matters</b> from the <b>completed layout</b> are more than those proposed in the <b>final layout</b> , the approval holder must submit, for approval by the <b>Minister</b> , a version of the Offset Strategy revised to compensate for <b>impacts to protected matters</b> from the action. The approval holder must not commence <b>operation</b> unless the <b>Minister</b> has either confirmed that the <b>completed layout</b> has not increased <b>impacts</b> relative to the <b>final layout</b> or approved the revised Offset Strategy in writing.	Condition fully satisfied	Detailed plans of the Final Layout were submitted to the Department on 27 October 2023 (refer to <b>Attachment 5</b> ). As outlined above in relation to Condition 3, the Final Layout and associated analysis identified an overall reduction in impacts from what was presented in the approved Rye Park Wind Farm Offset Strategy.

Condition Number	Approval Condition	Compliance Status	Comments
16	The approval holder must <b>retire</b> the <b>like-for-like biodiversity credits</b> , as required in the approved Offset Strategy or, if a revision of the Offset Strategy is required in accordance with condition 15, the approved revised Offset Strategy, within two (2) years of the <b>commencement of the action</b> , and prior to the commencement of <b>operation</b> .	Non-compliant	<p>The Approval Holder is implementing the approved Biodiversity Offset Strategy, which requires retirement of like-for-like biodiversity credits for the disturbance associated with the Action under the <i>Biodiversity Conservation Act 2016</i> (NSW).</p> <p>Non-compliance with this condition is further detailed in section 4.0, with the Approval Holder not retiring biodiversity credits within 2 years of the commencement of the Action, being 16 November 2023. The Approval Holder is yet to commence operation, with this being likely to occur in May 2024.</p>
17	Within 20 <b>business days</b> of completing the requirements of condition 16, the approval holder must provide the <b>department</b> with <b>evidence</b> of when and how the <b>like-for-like biodiversity credits</b> were <b>retired</b> .	Not applicable (Condition to be satisfied)	This requirement has not been satisfied due to the requirements of Condition 16 not being met.
18	To compensate for potential cumulative <b>impacts</b> on the <b>Superb Parrot</b> , the approval holder must prepare and implement a Superb Parrot Population Monitoring Program (SPPMP). The SPPMP must be submitted to the <b>Minister</b> for approval prior to commencement of <b>commissioning</b> .	Condition fully satisfied	The Approval Holder submitted the Rye Park Wind Farm Superb Parrot Research Plan (Revision 3, dated November 2022) to the Department on 29 September 2022. A delegate of the Minister for the Environment and Water has approved the Plan in accordance with Condition 18 on 1 December 2022.
19	The approval holder must not commence <b>commissioning</b> unless the <b>Minister</b> has approved the SPPMP. The approval holder must implement the approved SPPMP.	Currently compliant with condition	<p>The Approval Holder commenced commissioning of Action on 20 July 2023. Notification of the commencement of commissioning was provided to the Department on 23 July 2023 in accordance with Condition 23(b) (refer to <b>Attachment 3</b>).</p> <p>The Approval Holder has entered into an agreement with the National Superb Parrot Recovery Team regarding implementation of the Research Plan on behalf of the Approval Holder.</p>
20	The implementation of the SPPMP must increase contemporary knowledge of <b>Superb Parrot</b> habitat use and breeding ecology within the <b>South-west Slopes of NSW Important Bird Area</b> , with a focus on identification of key breeding sites, and a better understanding of local movement patterns during the breeding season and landscape scale movements between the key breeding areas and winter foraging grounds.	Currently compliant with condition	<p>In assessing and approving the Rye Park Wind Farm Superb Parrot Research Plan, the Department had assessed the Research Plan against the requirements of Condition 20 and determined that the Research Plan sufficiently addresses the relevant obligations.</p> <p>The specific requirements relevant to Condition 20 are addressed in Section 3 and 5 of the Research Plan.</p>
21	The SPPMP must support the recovery objectives and actions described in the <b>National Recovery Plan for the Superb Parrot <i>Polytelis swainsonii</i></b> . The SPPMP must include:	Currently compliant with condition	The Rye Park Wind Farm Superb Parrot Research Plan is consistent with the National Recovery Plan and has been prepared with input from the National Superb Parrot Recovery Team.

Condition Number	Approval Condition	Compliance Status	Comments						
	a. specific conservation research and monitoring objectives and proposed activities, additional to any required under the approved BBAMP, to achieve the objectives; b. proposed timing, effort and expertise required for each activity; c. nomination of <b>suitably qualified persons or organisations</b> responsible for carrying out the activities; d. commitments for the provision and timing of funding; and e. mechanisms to ensure that knowledge and information gained from the SPPMP is easily accessible and can be used by the <b>department</b> , the general public and the scientific community.		Section 2 of the Research Plan identifies where each requirement of Condition 21 has been addressed in the Research Plan.						
22	The approval holder must provide \$250,000 over three (3) years, indexed in line with CPI for each year on the date of this approval, to fund the conservation research activities specified in the approved SPPMP. The contributions are to be made as specified in the table below. <table border="1"> <tr> <td>Year 1 (2023)</td> <td>\$79,800 (GST exclusive)</td> </tr> <tr> <td>Year 2 (2024)</td> <td>\$79,800 (GST exclusive)</td> </tr> <tr> <td>Year 3 (2025)</td> <td>\$90,400 (GST exclusive)</td> </tr> </table> The first contribution must be made prior to the commencement of commissioning, and no later than 30 June 2023. Subsequent annual contributions must be made within 20 business days of the anniversary of the date of the first contribution.	Year 1 (2023)	\$79,800 (GST exclusive)	Year 2 (2024)	\$79,800 (GST exclusive)	Year 3 (2025)	\$90,400 (GST exclusive)	Currently compliant with condition	The Year 1 conservation funding payment (\$79,800 ex. GST) was made to the Australian Capital Territory Government as represented by the Environment, Planning and Sustainable Development Directorate on 23 March 2023.  This payment was made both prior to 30 June 2023 and the commencement of commissioning on 20 July 2023 as required by Condition 22.
Year 1 (2023)	\$79,800 (GST exclusive)								
Year 2 (2024)	\$79,800 (GST exclusive)								
Year 3 (2025)	\$90,400 (GST exclusive)								
<b>Part B – Standard administrative conditions</b>									
<b>Notification of date of commencement</b>									
23	The approval holder must notify the <b>department</b> in writing of: <ol style="list-style-type: none"> <li>the date of <b>commencement of the action</b> within 10 <b>business days</b> after the date of <b>commencement of the action</b>;</li> <li>the date of commencement of <b>commissioning</b> within 10 business days after the date of commencement of <b>commissioning</b>;</li> <li>the date of commencement of <b>operation</b> within 10 <b>business days</b> after the date of commencement of <b>operation</b>.</li> </ol>	Currently compliant with condition	Notice was provided to the Department on 16 November 2021 that the action commenced on 16 November 2021 in accordance with Condition 23(a). Further notice was provided to the Department on 23 July 2023 of the commencement of commissioning, which occurred on 20 July 2023. This notice of commissioning is provided in <b>Attachment 3</b> .  The Approval Holder notes the requirements for further notification of the commencement of operation in line with Condition 23(c), with operation of the Action likely to in the next reporting period (May 2024).						
24	If the <b>commencement of the action</b> does not occur within five (5) years from the date of this approval, then the approval holder must not <b>commence the action</b> without the prior written agreement of the <b>Minister</b> .	Condition fully satisfied	The Approval Holder has substantially commenced the action that relates to the EPBC Approval.						

Condition Number	Approval Condition	Compliance Status	Comments
<b>Compliance records</b>			
25	The approval holder must maintain accurate and complete <b>compliance records</b> .	Currently compliant with condition	The Approval Holder maintains accurate records substantiating all activities associated with or relevant to the conditions of the EPBC Approval, including measures taken to implement the relevant action management plans
26	If the <b>department</b> makes a request in writing, the approval holder must provide electronic copies of <b>compliance records</b> to the <b>department</b> within the timeframe specified in the request.  <i>Note: Compliance records may be subject to audit by the department or an independent auditor in accordance with section 458 of the EPBC Act, and or used to verify compliance with the conditions. Summaries of the result of an audit may be published on the department's website or through the general media.</i>	Not applicable	No written requests have been received by the Department to provide compliance records during the reporting period.
<b>Submission and publication of plans</b>			
27	The approval holder must: a. submit <b>plans</b> electronically to the <b>department</b> for approval by the <b>Minister</b> ; b. unless otherwise agreed in writing by the Minister, publish each <b>plan</b> on the website within 20 <b>business days</b> of the date: i. the <b>plan</b> is approved by the <b>Minister</b> , or ii. the <b>plan</b> is submitted to the <b>Minister</b> or the <b>department</b> ; c. exclude or redact <b>sensitive ecological data</b> from <b>plans</b> published on the <b>website</b> or provided to a member of the public; and d. keep <b>plans</b> published on the <b>website</b> until the end date of this approval.	Currently compliant with condition	The Approval Holder has submitted plans to the Department relevant to the EPBC Approval conditions. In accordance with Condition 27 these plans have been published on the Approval Holder's website ( <a href="http://www.ryeparkwf.com.au">www.ryeparkwf.com.au</a> ), including: <ul style="list-style-type: none"> <li>Biodiversity Management Plan (Condition 5)</li> <li>Bird and Bat Adaptive Management Plan (Condition 8)</li> <li>Final Layout Plans (Condition 12)</li> <li>Offset Strategy (Condition 13)</li> <li>Superb Parrot Population Monitoring Program (Condition 18)</li> </ul> <p>The plans have been published with their relevant letters of approval from the Department for reference.</p>
28	The approval holder must ensure that any <b>monitoring data</b> (including <b>sensitive ecological data</b> ), surveys, maps, and other spatial and metadata required under a <b>plan</b> , is prepared in accordance with the <b>department's</b> Guidelines for biological survey and mapped data (2018) and submitted electronically to the department in accordance with the requirements of the <b>plan</b> .	Currently compliant with condition	In assessing and approving the relevant plans required by the EPBC Approval, the Department had assessed the plans against the requirements of Condition 28 and determined that the plans and data sufficiently addresses the relevant obligations.
<b>Annual compliance reporting</b>			

Condition Number	Approval Condition	Compliance Status	Comments
29	<p>The approval holder must prepare a <b>compliance report</b> for each 12 month period following the date of <b>commencement of the action</b>, or as otherwise agreed to in writing by the <b>Minister</b>. The approval holder must:</p> <ol style="list-style-type: none"> <li>publish each <b>compliance report</b> on the <b>website</b> within <b>60 business days</b> following the relevant 12 month period;</li> <li>notify the <b>department</b> by email that a <b>compliance report</b> has been published on the <b>website</b> and provide the link for the <b>compliance report</b> within five (5) <b>business days</b> of the date of publication;</li> <li>keep all <b>compliance reports</b> publicly available on the <b>website</b> until this approval expires;</li> <li>exclude or redact <b>sensitive ecological data</b> from <b>compliance reports</b> published on the <b>website</b>; and</li> <li>where any <b>sensitive ecological data</b> has been excluded from the version published, submit the full <b>compliance report</b> to the <b>department</b> within five (5) <b>business days</b> of publication.</li> </ol> <p><i>Note: Compliance reports may be published on the department's website.</i></p>	Currently compliant with condition	This compliance report has been prepared to satisfy Condition 29. It is relevant to the 2 <sup>nd</sup> Year and is required to be published on the Approval Holder's website by 13 February 2023 and will be concurrently notified to the Department.
<b>Reporting non-compliance</b>			
30	<p>The approval holder must notify the <b>department</b> in writing of any: <b>incident</b>; non-compliance with the conditions; or non-compliance with the commitments made in <b>plans</b>. The notification must be given as soon as practicable, and no later than two (2) <b>business days</b> after becoming aware of the <b>incident</b> or non-compliance. The notification must specify:</p> <ol style="list-style-type: none"> <li>any condition which is or may be in breach;</li> <li>a short description of the <b>incident</b> and/or non-compliance; and</li> <li>the location (including co-ordinates), date, and time of the <b>incident</b> and/or non-compliance. In the event the exact information cannot be provided, provide the best information available.</li> </ol>	Non-complaint	<p>The Approval Holder has further described non-compliances with the conditions of the EPBC Approval and their notification to the Department in Section 4.0.</p> <p>No additional any incidents or non-compliance with the conditions of the EPBC Approval or the approved action management plans have been noted during the Reporting Period.</p>
31	<p>The approval holder must provide to the <b>department</b> the details of any <b>incident</b> or non-compliance with the conditions or commitments made in <b>plans</b> as soon as practicable and no later than 10 <b>business days</b> after becoming aware of the <b>incident</b> or non-compliance, specifying:</p> <ol style="list-style-type: none"> <li>any corrective action or investigation which the approval holder has already taken or intends to take in the immediate future;</li> <li>the potential <b>impacts</b> of the <b>incident</b> or non-compliance; and</li> <li>the method and timing of any remedial action that will be undertaken by the approval holder.</li> </ol>		
<b>Independent audit</b>			

Condition Number	Approval Condition	Compliance Status	Comments
32	The approval holder must ensure that <b>independent audits</b> of compliance with the conditions are conducted as requested in writing by the <b>Minister</b> .	Currently compliant with condition	The Minister is yet to direct the Approval Holder to conduct an independent audit of compliance with the conditions of the EPBC Approval.
33	For each <b>independent audit</b> , the approval holder must: <ol style="list-style-type: none"> <li>provide the name and qualifications of the <b>independent</b> auditor and the draft audit criteria to the <b>department</b>;</li> <li>only commence the <b>independent audit</b> once the audit criteria have been approved in writing by the <b>department</b>; and</li> <li>submit an audit report to the <b>department</b> within the timeframe specified in the approved audit criteria.</li> </ol>		
34	The approval holder must publish the audit report on the <b>website</b> within 10 <b>business days</b> of receiving the <b>department's</b> approval of the audit report and keep the audit report published on the <b>website</b> until the end date of this approval.		
<b>Revision of action management plans</b>			
35	The approval holder may, at any time, apply to the <b>Minister</b> for a variation to an action management plan approved by the <b>Minister</b> under conditions 5, 8 and 13 or as subsequently revised in accordance with these conditions, by submitting an application in accordance with the requirements of section 143A of the <b>EPBC Act</b> . If the <b>Minister</b> approves a revised action management plan then, from the date specified, the approval holder must implement the revised action management plan in place of the previous action management plan.	Currently compliant with condition	The Approval Holder has in the previous reporting period sought to vary relevant approved action management plans as specified in this compliance report during the reporting period. These action management plans continue to be implemented by the Approval Holder and its contractors and been made available on the Approval Holder's website ( <a href="http://www.ryeparkwf.com.au">www.ryeparkwf.com.au</a> ).
<b>Completion of the action</b>			
36	Within 20 <b>business days</b> after the <b>completion of the action</b> , the approval holder must notify the <b>department</b> in writing and provide <b>completion data</b> .	Currently compliant with condition	Operation of the Action likely to commence in 2024 with the wind farm likely to have an operational life of 25 – 30 years.

## 4.0 Identified non-compliances

The following section summarises non-compliances with the EPBC Approval identified by the Approval Holder and notified to the Department during the Reporting Period.

### 4.1 Disturbance outside Project Area

On 13 October 2023, notification was provided to the Department that the Approval Holder had become aware of a number of instances where construction related disturbance has occurred outside of the Project Area as defined in the EPBC Approval, associated with the area labelled as 'Development Corridor Wind Farm' in Appendix B of the EPBC Approval.

Following the completion of surveys to confirm the development footprint in accordance with Section 5.4 of the Biodiversity Management Plan approved under Condition 5 of the EPBC Approval, twenty-eight (28) areas were identified where temporary access tracks to facilitate the construction of overhead transmission lines and civil works associated with permanent infrastructure have extended outside of the Development Corridor. These areas totalled 0.41 ha, with the largest excursion being approximately 428m<sup>2</sup> and the smallest being approximately 20m<sup>2</sup>.

Including the additional disturbance areas, the overall extent of construction related disturbance remains below the level anticipated based on the pre-construction indicative disturbance estimates contained within the approved Offset Strategy and the relevant clearing limits under Condition 3 of the EPBC Approval, with the final surveyed disturbance associated with the Project being identified in Section 3.0 (Condition 3).

Further correspondence was provided to the Department on 27 October 2023 confirming the spatial areas of the additional disturbed areas and provided the Rye Park Wind Farm – Final Layout Confirmation of Credit Liability Report (Umwelt, October 2023; **Attachment 1**) that demonstrates the final disturbance area and associated biodiversity offset credit liability associated with the Development, including the additional disturbance areas.

### 4.2 Retirement of Biodiversity Credits

On 27 October 2023, notification was provided to the Department providing plans of the completed layout of the Action following the conclusion of civil related disturbance, including minor micro-siting of relevant wind farm infrastructure (refer to **Attachment 5**). This notification noted that the survey activities of the civil disturbance of the Action were only recently completed on 10 October 2023 following their completion in August 2023.

The correspondence noted the steps taken by the Approval Holder to the like-for-like credit requirements for the Action, including making payments into the Biodiversity Conservation Fund and establishment of biodiversity Stewardship agreements under land controlled by the Approval Holder. The Approval Holder noted the requirement of Condition 16 of the EPBC Approval to retire the relevant credits by 16 November 2023, being 2 years from the commencement of the Action and prior to the commencement of operation, with this not being achievable considering the delays in establishing the final credit liability and acquiring biodiversity credits for the Action.

A request made to extend this period for the retirement of the biodiversity credits was not granted by the Department and the Approval Holder will seek to make a request to the Department to extend the period relevant to the commencement of operations to align with an extension granted by the State to allow biodiversity credits to be retired prior to 1 July 2024.

## 5.0 New environmental risks

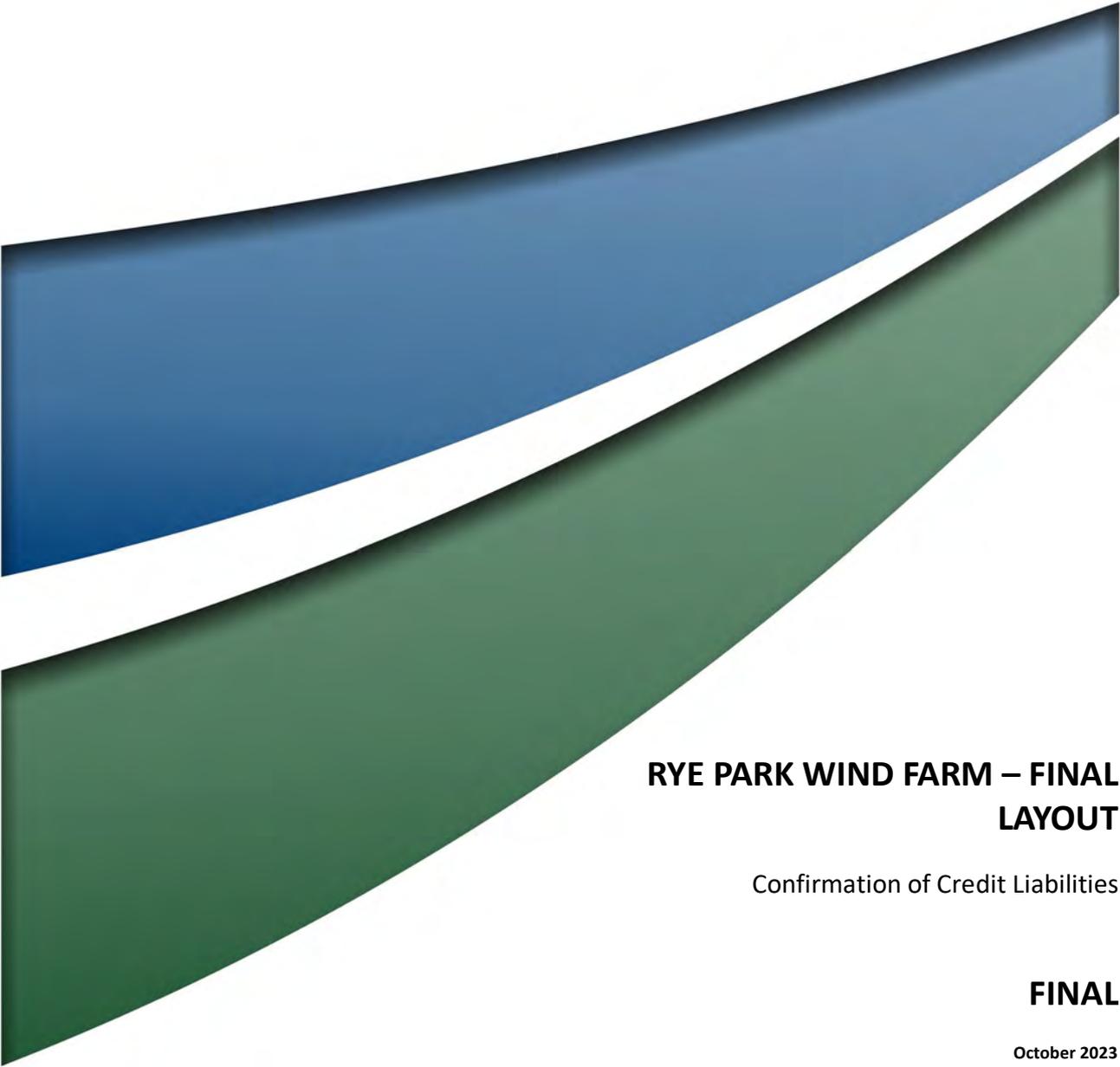
The Approval Holder and its contractors continued construction of the wind farm during the current reporting period following commencement of the Action in the previous reporting period. The approval Holder has actively reviewed compliance and environmental performance of its contractors in implementing the EPBC Approval conditions and requirements of the relevant action management plans.

Through the Reporting Period, the Approval Holder and its contractors consider that the current management measures are effective at minimising risks to the relevant Protected Matters and not noted any additional environmental risks that require consideration and control.

Following commencement of commissioning of the Action, the Approval Holder has commenced the required management actions under the BBAMP. The preliminary implementation of these actions will inform a proposed review of the BBAMP at the commencement of operation of the Action, as required by the provisions of the BBAMP. It is likely that the Approval Holder will propose measures to streamline the implementation of the BBAMP as part of this milestone review.



## **Attachment 1: Rye Park Wind Farm – Final Layout Confirmation of Credit Liability Report**



**RYE PARK WIND FARM – FINAL  
LAYOUT**

Confirmation of Credit Liabilities

**FINAL**

October 2023

# RYE PARK WIND FARM – FINAL LAYOUT

Confirmation of Credit Liabilities

## FINAL

Prepared by  
**Umwelt (Australia) Pty Limited**  
on behalf of  
**Tilt Renewables Pty Ltd**

Project Director: **Bill Wallach**  
Project Manager: **Bill Wallach**  
Report No. **4107D /R21**  
Date: **October 2023**



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### Document Status

Rev No.	Reviewer		Approved for Issue	
	Name	Date	Name	Date
V2	Bill Wallach	24/10/2023	Bill Wallach	24/10/2023

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# 1.0 Executive Summary

This report provides the finalised biodiversity credit requirement for the Rye Park Wind Farm project (the Project) by Rye Park Renewable Energy Pty Ltd (RPRE) in accordance with Schedule 3 Condition 20 and 21 of the NSW Approval (SSD 6693-MOD 2) detailed in **Section 2.0**. Furthermore, these calculations will form an attachment to the Offset Strategy prepared to meet the requirements of Condition 14 of EPBC 2020/8837, detailed in **Section 2.0**.

The updated calculations have been prepared following completion of the post-clearance inspection of the Project in accordance with Section 5.4 of the approved Rye Park Wind Farm Biodiversity Management Plan. The surveyed disturbance areas from the post-clearance inspections have formed the basis of the calculations of the overall final project disturbance.

The updated biodiversity credit requirements outlined in this report has been prepared using the same methodology employed in the updated biodiversity credit requirements report prepared in October 2021 for MOD 1 (Umwelt 2021a) and a previous revision of this report (Revision 2), which supported MOD 2 (Umwelt 2022). This revised design of the Project subject to the MOD 2 was referred to as the 'revised pre-construction final development footprint', with this terminology being maintained in this report to further include the additional public road upgrade disturbance.

The pre-construction final development footprint is shown on the final layout plans prepared in accordance with Schedule 2 Condition 10 of the Development Consent and Condition 12 of EPBC 2020/8837, with RPRE advising that these plans were re-submitted following the approval of MOD2 to reflect the revised pre-construction final development footprint.

Umwelt has completed a detailed review of the final footprint including GIS analysis to ensure the Project is in accordance with impact thresholds identified in Condition 19 of the NSW Approval (SSD 6693-MOD 2) and Condition 3 of EPBC 2020/8837.

This review has confirmed that the final development footprint has reduced impacts on the BC Act and EPBC Act CEECs and four species-credit species (striped legless lizard, squirrel glider, superb parrot, and golden sun moth) when compared against the MOD 2 Confirmation of Credit Liabilities Report (Umwelt 2022).

When compared against the MOD 2 Confirmation of Credit Liabilities (Umwelt 2022), the final impacts of all PCTs and species credit species have been reduced. The final footprint reduced golden sun moth impacts by 11.1 ha, striped legless lizard impacts by 3.43 ha, superb parrot impacts by 3.36 ha, squirrel glider impacts by 16.92 ha, while southern myotis impacts were avoided completely. A summary of the comparison of impacts is provided below:

- Striped legless lizard:
  - 37.57 ha of impact has occurred in the final development footprint, a **reduction of 3.43 ha** compared with the MOD2 Confirmation of Credit Liabilities (Umwelt 2022).
- Superb parrot:
  - 15.88 ha of impact has occurred in the final development footprint, a **reduction of 3.36 hectares** compared with the MOD2 Confirmation of Credit Liabilities (Umwelt 2022).
  - Removal of two suitable breeding trees along Cooks Hill Road associated with the required public road upgrades. No breeding or use of the trees by superb parrot was observed.

- Golden sun moth:
  - 65.22 ha of impact has occurred in the final development footprint, a **reduction of 11.1 hectares** compared with the MOD2 Confirmation of Credit Liabilities (Umwelt 2021a).
- Squirrel glider:
  - 67.67 ha of impact has occurred in the final development footprint, a **reduction of 16.92 ha** compared with the MOD2 Confirmation of Credit Liabilities (Umwelt 2022).

With comparison to the MOD2 Confirmation of Credit Liabilities (Umwelt 2022), all PCTs have reduced impacts. Further, impacts to the two threatened ecological communities have also had reduced impacts when compared to the MOD2 Confirmation of Credit Liabilities (Umwelt 2022), a summary is provided below:

- White Box - Yellow Box - Blakely's Red Gum Grassy Woodland and Derived Native Grassland') CEEC under the BC Act.
  - 27.82 ha of impact has occurred within the final development footprint, a **reduction of 5.18 ha** compared with the MOD2 Confirmation of Credit Liabilities (Umwelt 2021a).
- White Box Yellow Box Blakely's Red Gum Grassy Woodland and Derived Native Grassland CEEC under the EPBC Act.
  - 27.08 ha of impact has occurred within the final development footprint, a **reduction of 4.02 ha** compared with the MOD2 Confirmation of Credit Liabilities (Umwelt 2021a).

The additional Biodiversity Assessment undertaken for MOD2 and the additional public road upgrade disturbance within the revised pre-construction final development footprint did not identify new Matters of National Environmental Significance (MNES) applicable to the Project. MOD2 and the additional public road upgrades propose to impact the same MNES identified, assessed, and approved through the EPBC Approval (EPBC 2020/8837) as varied on 30 June 2022. This is consistent with the assessment of the final footprint of the Project.

It is understood that the Project has completed all necessary construction and will not require any further design changes. The final development footprint is considered to have been completed as per Schedule 2 Condition 8 of the Development Consent and the conditions of the EPBC 2020/8837. Further detail on micro-siting is provided in **Section 7.0**.

Prior to the commencement of operations (or following any upgrades of any wind turbines or ancillary infrastructure), executed plans showing the comparison to the revised pre-construction final development footprint will be prepared in accordance with Schedule 5 Condition 6 of the Development Consent and Condition 15 of the EPBC 2020/8837, and will be submitted to the relevant departments. This report has been prepared to support this process.

## 2.0 Introduction

Rye Park Renewable Energy Pty Ltd (RPRE) is developing the Rye Park Wind Farm Project (the Project) in southern NSW broadly between Yass and Boorowa (**Figure 2.1**).

The Project was granted a Development Consent (SSD 6693) (the Development Consent) by the NSW Planning Assessment Commission (PAC, now known as the Independent Planning Commission), subject to conditions, under the *Environmental Planning & Assessment Act 1979* (EP&A Act) on 22 May 2017 and a modification (MOD 1) approved 15 April 2021. A further modification to the Development Consent (MOD 2) was approved by a delegate of the Minister on 23 September 2022.

The Commonwealth approved the Project (EPBC 2020/8837) under the *Environment, Protection and Biodiversity Conservation Act 1999* (EPBC Act) on 1 June 2021<sup>1</sup>, subject to conditions, following assessment by preliminary documentation under Section 87 of the EPBC Act. A variation to the EPBC Approval was approved by a delegate of the Minister on 30 June 2022.

This report was initially prepared to support the Modification Application 2 Report being prepared by Tilt Renewables to request to modify Development Consent State Significant Development (SSD) 6693 – Modification 1 (Development Consent, or SSD 6693-MOD 1) under the *Environmental Planning and Assessment Act 1979* (EP&A Act). Following approval of MOD 2, this report has been varied to also consider the disturbance considered as part of the additional public road upgrade requirements within Cooks Hill Road. Due to the multiple purposes of this report, information has been presented as relevant to the assessment of MOD2 and the additional public road upgrade requirements following the approval of MOD2.

This report provides a finalisation to the areas of impact and credit requirements for the Project using the Biodiversity Assessment Method – Credit calculator (BAM CC) following completion of detailed design and construction of the Project. This will be made available on [www.ryeparkwf.com.au](http://www.ryeparkwf.com.au).

The information provided in this report relates to the detailed assessment completed for the Project in accordance with the Biodiversity Assessment Method (2017), specifically the Biodiversity Development Assessment Report (BDAR) exhibited in August 2020 (Umwelt 2020a), the Impact Assessment Addendum lodged in November 2020 (Umwelt 2020b) and the previous MOD 1 Confirmation of Credit Liabilities report (Umwelt 2021a) and the MOD 2 Confirmation of Credit Liabilities report (Umwelt 2022).

This report has been prepared in accordance with the requirements of Schedule 3 Condition 20 of the NSW Approval (SSD 6693-MOD 2) which requires:

*20. Prior to the commencement of construction, unless the Planning Secretary agrees otherwise, the Applicant must:*

- a) update the baseline mapping of the vegetation and key habitat within the final disturbance area; and*
- b) calculate the biodiversity offset credit liabilities for the development in accordance with the Biodiversity Assessment Method under the NSW Biodiversity Offsets Scheme,*

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<sup>1</sup> Note. the Rye Park Wind Farm was originally granted approval (EPBC 2014/7163) on 6 December 2017, however due to a number of proposed modifications to the action a new referral was made in 2020.

*in consultation with BCS, and to the satisfaction of the Department.*

Furthermore, these calculations will form an attachment to the Offset Strategy prepared to meet the requirements of Condition 14 of EPBC 2020/8837, specifically to address Condition 14(b):

*14. The Offset Strategy must be prepared by a suitably qualified expert(s), and must:*

*b) based on the areas of habitat for protected matters, including HBTs, to be impacted in the final layout, propose offsets to compensate for impacts to:*

*i. Box Gum Woodland;*

*ii. Superb Parrot habitat, including HBTs;*

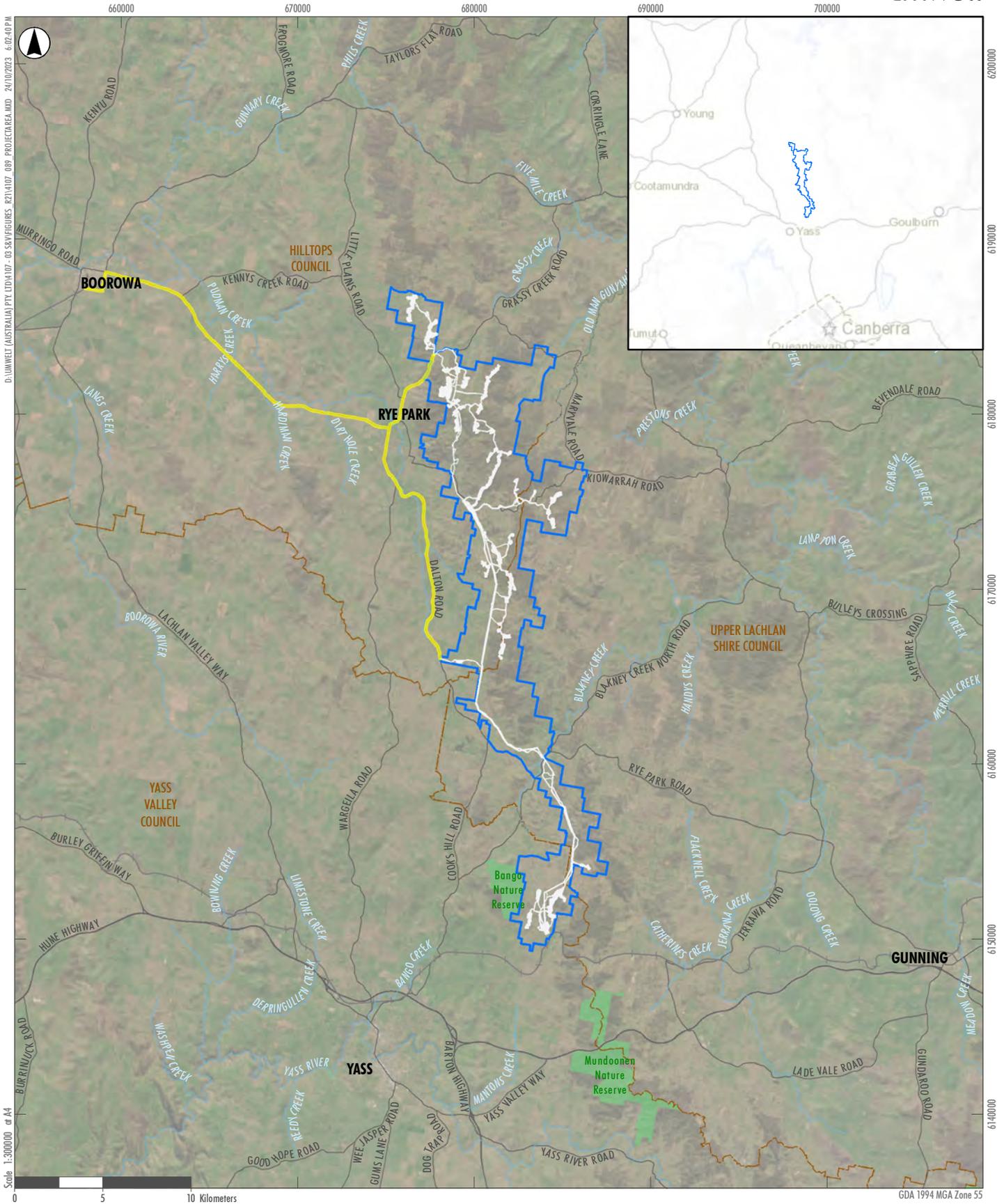
*iii. Golden Sun Moth habitat;*

*iv. Striped Legless Lizard habitat;*

*in accordance with clauses 6.2 and 6.6A of the Biodiversity Conservation Regulation 2017 (NSW); and*

*c) provide the Biodiversity Assessment Method credit calculations used to determine the required number of like-for-like biodiversity credits to be retired to compensate for impacts to protected matters.*

This report aims to provide the necessary information to support statements from Section 4.55(1A) of the EP&A Act and Part 7, Division 4, Section 7.17(2c) of the BC Act.



- Legend**
- Rye Park Wind Farm Project Area
  - Rye Park Wind Farm Development Corridor
  - Transport Route (Boorowa to Wind Farm Site)
  - Local Government Area (LGA)
  - Road
  - + Railway
  - Watercourses

FIGURE 2.1

**Rye Park Wind Farm  
Final Development Footprint**

## 2.1 The Final Project

Since the Development Consent was granted and EPBC 2020/8837 obtained, the Project has undergone further optimisations as part of the progression of the Project's detailed design, and to ensure the Project complies with the conditions of consent/approval and other key requirements.

The main components of the final Project are as follows:

- 66 wind turbines (Vestas V162), each with:
  - a capacity to generate up to approximately 6 MW
  - three blades mounted on a tubular steel tower, with a combined height of blade and tower limited to a maximum tip height of 200 m
  - crane hardstand area, and related turbine lay down area
- a new 33 kV wind farm collection substation in the northern section of the Project site
- a new 330 kV wind farm connection substation located adjacent to the existing TransGrid 330 kV transmission line in the southern section of the Project site
- a temporary construction compound at the northern section of the Project site
- a temporary construction compound to facilitate the upgrades on the TransGrid owned existing 330kV Transmission Line at the southern section of the Project site
- a new overhead powerline approximately 30km in length, rated at up to 330 kV (nominal) capacity, running north-south along the length of the wind farm between the two substations. The powerline would be mounted on a single pole type structure and will either be single-circuit or double-circuit as required
- underground and overhead 33 kV electrical cabling linking the wind turbines to the on-site collection substations and connection substation
- operation and maintenance facility incorporating a control room and equipment storage at the southern section of the Project site
- temporary concrete batching plants and construction facilities
- access tracks required for each wind turbine and the related ancillary facilities above
- minor upgrades to local roads, as required for the delivery of the wind turbines
- three temporary meteorological masts and two permanent monitoring masts for wind speed verification, weather, and general monitoring purposes. The permanent monitoring masts are static guyed structures and are the height of the wind turbine hubs (119 m).

The final development footprint is shown on the final layout plans that are to be prepared in accordance with Schedule 5 Condition 6 of the Development Consent and Condition 15 of EPBC 2020/8837. These plans consider both the changes to the project design as a result of the approval of MOD 2, the as-built wind farm infrastructure layout and completion of the post-clearance survey inspections of the civil disturbance of the wind farm.

Prior to the commencement of operations (or following any upgrades of any wind turbines or ancillary infrastructure), executed plans showing the comparison to the revised pre-construction final development footprint will be prepared in accordance with Schedule 5 Condition 6 of the Development Consent and Condition 15 of the EPBC 2020/8837, will be submitted to the relevant departments. This report has been prepared to support this process.

## 3.0 Methods

The sections below describe the work undertaken to determine the impact and credit calculations.

### 3.1 Previous Assessments

All biodiversity values assessed have been identified and described in full as part of the extensive reports prepared, submitted, and exhibited for the Development Modifications (MOD1 and MOD 2). This includes:

- Rye Park Wind Farm – Biodiversity Development Assessment Report, Final (August 2020) (Umwelt 2020a).
- Rye Park Wind Farm – Biodiversity Attachment, Environment Protection and Biodiversity Conservation Act 1999 Referral (November 2020) (Umwelt 2020b).
- Rye Park Wind Farm – Impact Assessment Addendum (March 2021) (Umwelt 2021b).
- Rye Park Wind Farm – Confirmation of Credit Liabilities (October 2021) (Umwelt 2021a).
- Rye Park Wind Farm – MOD 2 Confirmation of Credit Liabilities (September 2022) (Umwelt 2022).

The most recent impact assessment which impact thresholds are compared to throughout this document is the Rye Park Wind Farm – MOD 2 Confirmation of Credit Liabilities (September 2022) (Umwelt 2022).

All necessary surveys, analyses and descriptions are provided within these reports. Biodiversity values considered as part of this final assessment include Plant Community Types (PCTs), vegetation zones, Threatened Ecological Communities (TECs) and species-credit species. A summary of work completed is however provided below.

#### 3.1.1 Previous Ecological Surveys

Extensive ecological surveys have been completed for the Project across multiple years between 2011 and 2021. This included surveys that were completed as part of the original approval (SSD 6693), that occurred in October and November 2011, April and November 2012, July, November and December 2013, March and October 2014, June 2015, and September 2016. These surveys including vegetation community identification and mapping, TEC analysis, habitat surveys, Bird and Bat Utilisation Surveys (BBUS) and threatened flora and fauna surveys. They were not completed in accordance with BAM (2017).

Since 2017, Umwelt completed all surveys on the Project in accordance with BAM (2017). Surveys were completed in September, October and December 2017, January, February, March, October and November 2018, January, February, March, April, July, August, September, November and December 2019, January, February and July 2020. Surveys have included vegetation community identification and mapping, TEC analysis, habitat surveys, Bird and Bat Utilisation Surveys (BBUS) and threatened flora and fauna surveys.

Full detail and dates of surveys completed for the Project which has facilitated the process of determining the impact and credit calculations is provided in Rye Park Wind Farm – Biodiversity Development Assessment Report, Final (August 2020) (Umwelt 2020a).

### 3.1.2 GIS Mapping

The identification, classification, assessment, and subsequent GIS mapping of vegetation (including TEC) and threatened species was completed in accordance with BAM (2017). Full detail of the work completed is presented in the Rye Park Wind Farm – Biodiversity Development Assessment Report, Final (August 2020) (Umwelt 2020a). The Rye Park Wind Farm – Impact Assessment Addendum (March 2021) (Umwelt 2021b) presents the updated assessments for two threatened species, being Golden Sun Moth (*Synemon plana*) and striped legless lizard (*Delma impar*).

The MOD2 Confirmation of Credit Liabilities (Umwelt 2022) used the previously prepared GIS mapping to assess the impacts of the revised pre-construction final development footprint.

### 3.1.3 Prescribed Impact Assessments

In accordance with Section 9.3.3 of BAM (2017) a number of prescribed impacts were considered for the Project, being impacts of threatened microbat species associated with caves, impacts from risk of vehicle strike, impacts of turbine strikes, removal of non-native vegetation supporting threatened species and the interruption and fragmentation to connectivity of native vegetation and associated habitat corridors.

Full detail of the prescribed impact assessments completed is presented in the Rye Park Wind Farm – Biodiversity Development Assessment Report, Final (August 2020) (Umwelt 2020a). The Rye Park Wind Farm – Impact Assessment Addendum (March 2021) (Umwelt 2021b) presents an updated assessment relating to the removal of non-native vegetation supporting golden sun moth.

The MOD2 Confirmation of Credit Liabilities (Umwelt 2022) documented the final analysis relating to the removal of non-native vegetation supporting golden sun moth within the revised pre-construction final development footprint.

### 3.1.4 Direct Partial Impacts

The finalisation of the Project's design has confirmed the extent of impact associated with the transmission line for the Project, including 132 kV and 33 kV. Specifically, the revised pre-construction final development footprint confirmed where the proposed transmission line easement would impact on vegetation identified for the Project due to electrical clearance. This was presented in the MOD2 Confirmation of Credit Liabilities (Umwelt 2022). Impacts were identified in vegetation that is currently or can grow equal to or greater than four metres tall. Vegetation zones 1, 3, 5, 7 and 9 were considered to meet these characteristics. Where these vegetation zones occur within the proposed transmission line easement electrical clearance, direct partial impacts were assessed for the Project.

In our original assessment of partial impacts for the Project, a proportion of biodiversity values was considered likely to remain within these areas. The BAM – CC was operated to manually edit the future integrity scores for the Composition, Structure and Function components of the applicable Vegetation Zones.

Canopy species, understorey and ground stratum flora species will persist and also provide substantial cover. Section 5.1.1.2 of the BDAR exhibited for the Project (Umwelt 2020a) details the process of considering, assessing and calculating impacts associated with direct partial impacts. Specifically, Table 5.4 of this BDAR presents the values of reduction assessed for each of the Composition, Structure and Function components (Umwelt 2020a).

## 3.2 Additional Assessment

### 3.2.1 Additional Ecological Surveys

Umwelt have undertaken an additional ecological survey for MOD 2 focussing entirely on components of the revised pre-construction final development footprint that are located beyond the previously approved MOD 1 Development Corridor.

The additional survey was undertaken in accordance with BAM (2020) for ecosystem credits. However, targeted species credit surveys were not undertaken in accordance with BAM (2020) in that multiple seasonal survey programs were not undertaken specifically for MOD 2. Rather the approach applied for MOD 2 is to utilise the previous extensive survey effort completed as part of the approved MOD 1.

The additional ecological survey in the internal wind farm components of MOD 2 were undertaken across four days, 5 – 8 October 2021, by two Umwelt Accredited BAM Assessor ecologists, Bill Wallach and Travis Peake.

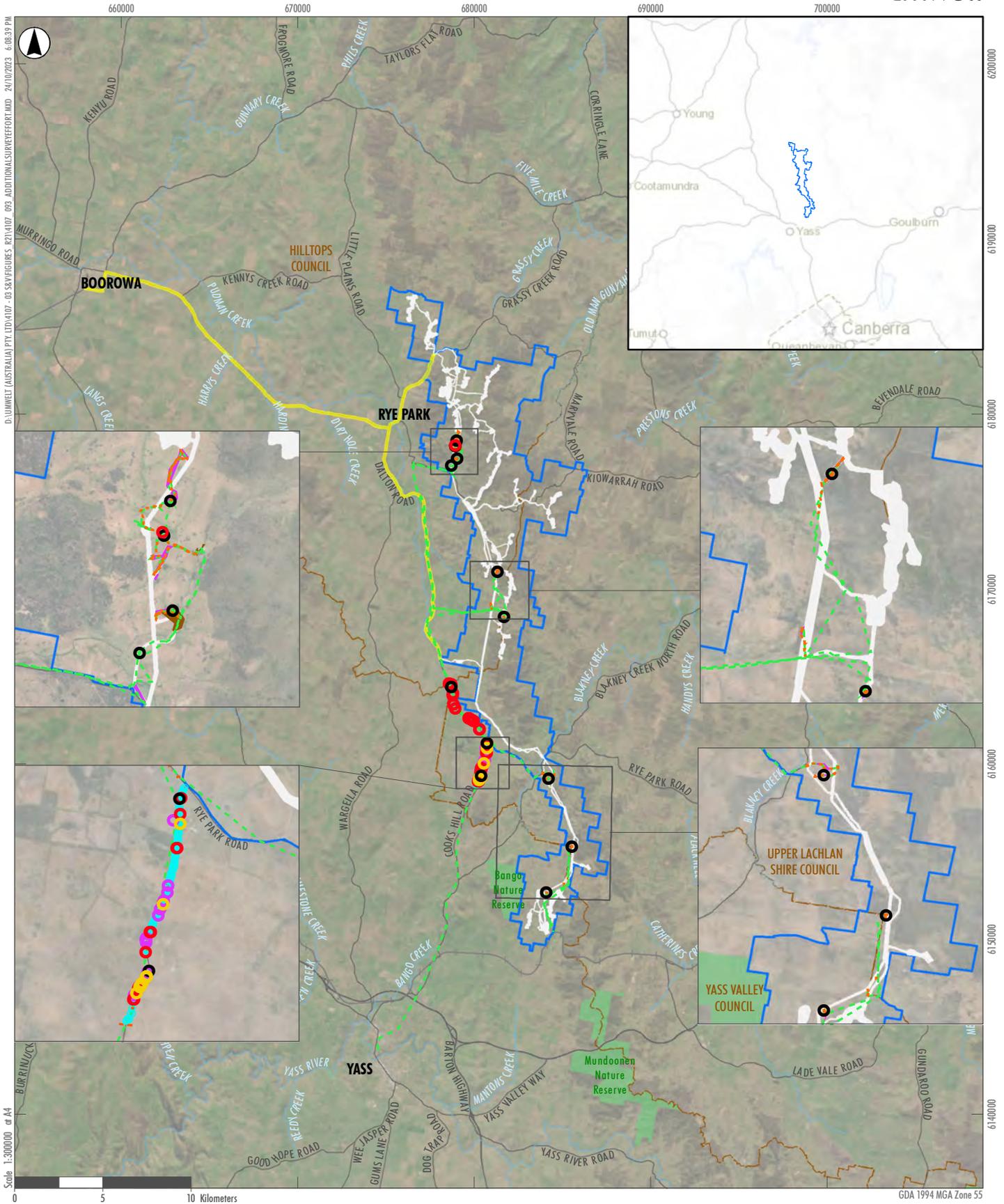
The methodology of the additional ecological survey included:

- 9 BAM Vegetation Integrity Plots
- walked parallel transects for threatened flora species
- rapid vegetation assessments
- habitat assessments for threatened flora and fauna species.

Additional ecological surveys specifically along Cooks Hill Road were undertaken on 12 and 13 January 2022 by two Umwelt ecologists: then 5 and 6 April 2022, 2 – 4 May 2022 and 29 November 2022 by one Umwelt ecologist. The methodology of the additional ecological surveys along this aspect of the proposed public road upgrades included:

- rapid vegetation assessments
- walked parallel transects for threatened flora species
- habitat assessments and surveys for threatened flora and fauna species
- individual tree assessments
- hollow bearing tree assessment of 11 trees proposed to be removed
- targeted assessment of hollow bearing tree suitability for superb parrot breeding habitat during breeding season 2022.

The additional ecological survey undertaken within the revised pre-construction final development footprint which occurred beyond the previously approved MOD 1 Development Corridor are presented in **Figure 3.1**.



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**Legend**

- ▭ Rye Park Wind Farm Project Area
- ▭ Rye Park Wind Farm Development Corridor
- ▭ Transport Route (Boorowa to Wind Farm Site)
- Local Government Area (LGA)
- Road
- + Railway
- Watercourses
- Hollow Bearing Tree Assessments
- Habitat Assessments
- BAM - Vegetation Integrity Plots
- Rapid Vegetation Assessments
- Tree Assessments
- - - Walked parallel threatened flora transects
- - - General Transects
- ▭ Habitat Assessments
- ▭ Rapid Vegetation Assessment Polygons

**FIGURE 3.1**

**Additional ecological surveys within the final development footprint**

### 3.2.2 Additional GIS Mapping

The identification, classification, assessment, and subsequent GIS mapping of vegetation (including TEC) and threatened species was completed in accordance with BAM (2020). Importantly however, all GIS mapping completed for the revised pre-construction final development footprint was done consistently with the approaches taken in the previous biodiversity assessments for the Project (Umwelt 2020, 2021a and 2021b, 2022). This approach was carefully considered and deemed to be accurate and appropriate given the small nature of the changes extending beyond the Approved Development Corridor.

### 3.2.3 Prescribed Impact Assessments

As the revised pre-construction final development footprint does not involve any modification to the Developments wind turbines, being number of, location or extent of footprint, there has been no revision to the Prescribed Impact Assessment relating to impacts of turbine strike. Therefore, the prescribed impact assessment relating to turbine strike is within the Rye Park Wind Farm – Biodiversity Development Assessment Report, Final (August 2020) (Umwelt 2020a), Rye Park Wind Farm – Impact Assessment Addendum (March 2021) (Umwelt 2021b).

An updated assessment relating to the removal of non-native vegetation supporting golden sun moth has been completed for the revised pre-construction final development footprint. This assessment is consistent with the methodology described in the Rye Park Wind Farm – Biodiversity Development Assessment Report, Final (August 2020) (Umwelt 2020a), Rye Park Wind Farm – Impact Assessment Addendum (March 2021) (Umwelt 2021b) and Rye Park Wind Farm – Confirmation of Credit Liability (Umwelt 2021a). A summary of the methodology is also presented above in **Section 3.1.3**.

The revised pre-construction final development footprint does not involve any modification to the Project that would interact with other Prescribed Impacts considered under BAM (DPE 2020). Therefore, all other prescribed impact assessments are presented within the Rye Park Wind Farm – Biodiversity Development Assessment Report, Final (August 2020) (Umwelt 2020a), Rye Park Wind Farm – Impact Assessment Addendum (March 2021) (Umwelt 2021b).

### 3.2.4 Direct Partial Impacts

An updated assessment relating to the direct partial impacts within the transmission line of the revised pre-construction final development footprint has been completed. This assessment has been updated to account for the results of the additional BAM – Vegetation Integrity Plots undertaken on 17 – 19 July 2023 within areas of partial direct impacts of the Project.

The original methodology is described in the Rye Park Wind Farm – Biodiversity Development Assessment Report, Final (August 2020) (Umwelt 2020a), Rye Park Wind Farm – Impact Assessment Addendum (March 2021) (Umwelt 2021b) and Rye Park Wind Farm – Confirmation of Credit Liability (Umwelt 2021a). A summary of the methodology is also presented above in **Section 3.1.4**.

Following finalised construction of the Project, Umwelt returned to the Project to complete additional BAM – Vegetation Integrity Plots within the partial direct impact areas to confirm the realised extent of impact in these locations. These BAM – Vegetation Integrity Plots were completed within the three vegetation zones where partial direct impacts were assessed, being Vegetation Zones 3, 5 and 7. In total an additional 10 BAM – Vegetation Integrity Plots were completed within the areas of partial direct impacts, these are summarised below in **Table 3.1**.

**Table 3.1 Additional BAM – Vegetation Integrity Plots completed within Partial Direct Impacts**

BAM – Vegetation Integrity Plots	IBRA Region	PCT	Condition	Vegetation Zone
P_4107D_001	NSW – South Western Slopes IBRA Bioregion	PCT 351 Brittle Gum - Broad-leaved Peppermint - Red Stringybark open forest in the north-western part (Yass to Orange) of the South Eastern Highlands Bioregion	Moderate to Good	5
P_4107D_002	NSW – South Western Slopes IBRA Bioregion	PCT 351 Brittle Gum - Broad-leaved Peppermint - Red Stringybark open forest in the north-western part (Yass to Orange) of the South Eastern Highlands Bioregion	Moderate to Good	5
P_4107D_003	South Eastern Highlands IBRA Bioregion	PCT 351 Brittle Gum - Broad-leaved Peppermint - Red Stringybark open forest in the north-western part (Yass to Orange) of the South Eastern Highlands Bioregion	Acacia Shrubland	7
P_4107D_004	South Eastern Highlands IBRA Bioregion	PCT 351 Brittle Gum - Broad-leaved Peppermint - Red Stringybark open forest in the north-western part (Yass to Orange) of the South Eastern Highlands Bioregion	Acacia Shrubland	7
P_4107D_005	South Eastern Highlands IBRA Bioregion	PCT 351 Brittle Gum - Broad-leaved Peppermint - Red Stringybark open forest in the north-western part (Yass to Orange) of the South Eastern Highlands Bioregion	Moderate to Good	5
P_4107D_006	South Eastern Highlands IBRA Bioregion	PCT 350 Candlebark - Blakely's Red Gum - Long-leaved Box grassy woodland in the Rye Park to Yass region of the NSW South Western Slopes Bioregion and South Eastern Highland Bioregion	Moderate to Good	3
P_4107D_007	South Eastern Highlands IBRA Bioregion	PCT 350 Candlebark - Blakely's Red Gum - Long-leaved Box grassy woodland in the Rye Park to Yass region of the NSW South Western Slopes Bioregion and South Eastern Highland Bioregion	Moderate to Good	3
P_4107D_008	South Eastern Highlands IBRA Bioregion	PCT 351 Brittle Gum - Broad-leaved Peppermint - Red Stringybark open forest in the north-western part (Yass to Orange) of the South Eastern Highlands Bioregion	Moderate to Good	5
P_4107D_009	NSW – South Western Slopes IBRA Bioregion	PCT 350 Candlebark - Blakely's Red Gum - Long-leaved Box grassy woodland in the Rye Park to Yass region of the NSW South Western Slopes Bioregion and South Eastern Highland Bioregion	Moderate to Good	3

BAM – Vegetation Integrity Plots	IBRA Region	PCT	Condition	Vegetation Zone
P_4107D_010	NSW – South Western Slopes IBRA Bioregion	PCT 350 Candlebark - Blakely's Red Gum - Long-leaved Box grassy woodland in the Rye Park to Yass region of the NSW South Western Slopes Bioregion and South Eastern Highland Bioregion	Moderate to Good	5

Following completion of the additional BAM – Vegetation Integrity Plots undertaken within areas of partial direct impacts of the Project, Umwelt has updated the partial direct impacts to modify the Composition, Structure and Function scores within the BAM – CC based on the realised averages as indicated below in **Table 3.2**.

**Table 3.2 Original and Updated Partial Impact Parameters**

Attribute	Original Method CCS	Realised CCS	Original Method SCS	Realised SCS	Original Method FCS	Realised FCS
Tree	Same as original	Based on additional BAM – Vegetation Integrity Plots, but limited to the original value	5 per cent of original	Based on additional BAM – Vegetation Integrity Plots, but limited to the original value		
Shrub	Same as original		25 per cent of original			
Grass and Grass Like	50 per cent of original		50 per cent of original			
Forb	50 per cent of original		5 per cent of original			
Fern	50 per cent of original		5 per cent of original			
Other	50 per cent of original		5 per cent of original			
Number of Large Trees					Default	Based on additional BAM – Vegetation Integrity Plots, but limited to the original value
Litter Cover					Same as original	
Coarse Woody Debris					Same as original	
Stem Size Class					1	
Regeneration stems <5cm DBH					Present	
High Threat Weed Cover					Same as original	

Full detail of the partial assessment for each of the applicable vegetation zones is presented below, initially for those that occur within the NSW Southern West Slopes IBRA Region (**Table 3.3**) and then for those that occur within the South East Highlands IBRA Region (**Table 3.4**).

**Table 3.3 Current, Original Future and Realised Future Score for Partial Impacts in Transmission (SEH IBRA)**

	VZ 3			VZ 5		
	Current Score	Original Future Score	Realised Future Score	Current Score	Original Future Score	Realised Future Score
<b>CCS</b>						
Tree	2.4	2.4	1.5	3.4	3.4	1.0
Shrub	1	1	0.0	4.6	4.6	0.0
Grass and Grass Like	6.9	3.5	4.5	6.3	3.2	3.0
Forb	4	2.0	2.0	4.5	2.3	2.5
Fern	0	0	0.0	0.1	0	0.1 (actual score 0.5)*
Other	0.4	0.2	0.0	0.8	0.4	0
<b>SCS</b>						
Tree	35.3	1.8	0.2	43.4	2.2	0.1
Shrub	5.3	1.3	0.0	14.5	3.6	0
Grass and Grass Like	29.6	14.8	7.1	26.7	12.7	26.7 (actual score 43.7)*
Forb	2.4	0.1	0.7	3.6	0.2	0.3
Fern	0	0	0.0	0.1	0	0.1
Other	1	0	0.0	1.3	0	0
<b>FCS</b>						
Number of Large Trees	2	0	0.0	1.9	0	0.0
Litter Cover	59.1	59.1	13.9	54.1	54.1	29.2
Coarse Woody Debris	48.1	48.1	15.5	125.7	125.7	72.5
Stem Size Class	3.1	1	0.0	3.5	1	0.0
Regeneration stems <5cm DBH	1	1	0	0.9	1	1
High Threat Weed Cover	1.7	1.7	1.1	0.1	0.1	0.0

\* The BAM-CC does not allow future scores to be entered higher than the original scores. Where higher scores were realised, the original score was entered.

**Table 3.4 Current, Original Future and Realised Future Score for Partial Impacts in Transmission (SEH IBRA)**

	VZ 3			VZ 5			VZ 7		
	Current Score	Original Future Score	Realised Future Scores	Current Score	Original Future Score	Realised Future Scores	Current Score	Original Future Score	Realised Future Scores
<b>CCS</b>									
Tree	2.4	2.4	2.0	3.4	3.4	1.0	1.4	1.4	1.4 (Actual score is 1.5)*
Shrub	1.3	1.3	1.3 (actual score is 2.5)*	4.6	4.6	1.5	4.5	4.5	3.5
Grass and Grass Like	6.9	3.5	5.0	6.3	3.2	2.5	6.5	3.3	5.0
Forb	4.0	2	2.0	4.5	2.3	2.5	4	2	3.5
Fern	0	0	0.0	0.1	0	0	1	0.5	1.0
Other	0.4	0.2	0.0	0.8	0.4	0	0.8	0.4	0.0
<b>SCS</b>									
Tree	35.3	1.8	2.7	43.4	2.2	0.6	27.6	1.4	22.0 (actual score is 27.6)*
Shrub	4.9	1.2	4.9 (actual score is 10)*	14.5	3.6	3.6	13.1	3.3	1.8
Grass and Grass Like	29.6	14.8	17.8	25.3	12.6	2.7	77.8	38.9	60.7 (actual score is 77.8)*
Forb	2.4	0.1	0.2	3.6	0.2	0.3	1	0	0.4
Fern	0	0	0.0	0.1	0	0	0.3	0	0.3 (actual score is 0.6)
Other	1	0	0.0	1.3	0	0	0.2	0	0.0
<b>FCS</b>									
Number of Large Trees	2	0	0.0	1.9	0	0.0	0.3	0	0.0
Litter Cover	59.1	59.1	28.2	54.1	54.1	22.9	28.2	28.2	28.2 (actual score is 36.4)

	VZ 3			VZ 5			VZ 7		
	Current Score	Original Future Score	Realised Future Scores	Current Score	Original Future Score	Realised Future Scores	Current Score	Original Future Score	Realised Future Scores
Coarse Woody Debris	48.1	48.1	0.0	125.7	125.7	3.5	49.8	49.8	34.0
Stem Size Class	3.1	1	0	3.5	1	0	2.5	1	2.0
Regeneration stems <5cm DBH	1	1	1	0.9	1	1	1	1	1
High Threat Weed Cover	1.7	1.7	0.1	0.1	0.1	0.1	0.1	0.1	0.0

\* The BAM-CC does not allow future scores to be entered higher than the original scores. Where higher scores were realised, the original score was entered.

### 3.3 Final Development Footprint

The calculations are based on the final development footprint which includes both permanent (areas disturbed and required for ongoing operation of the Project) and temporary disturbance (areas disturbed to enable the construction of the Project), including:

- Temporary disturbance: temporary construction compounds, batch plant hardstands, temporary laydown hardstands, stockpile locations, cable routes, and disturbance along the edge of permanent disturbance areas.
- Permanent disturbance: sealed access tracks and turbine hardstands, sealed access tracks and turbine hardstands/engineered batters, clearance to maintain electrical safety, operations and maintenance facility, substations, sealed temporary construction pounds/hardstands which the landowner wishes to keep for their existing agricultural practices, and minor works associated with areas of public road upgrade.

Importantly, all disturbance has been calculated as full loss of biodiversity using the BAM (including the resulting biodiversity offset credits), except for areas where the disturbance is associated with clearance of overstorey vegetation within the transmission line easement only. **Section 3.1.4** sets out the details of the methodology used to calculate this partial loss which will be verified in accordance with the process set out in **Section 7.0**.

### 3.4 BAM – Credit Calculator

In order to update the final credit requirement for the Project, Umwelt revised the Biodiversity Assessment Method (BAM) – Credit Calculator to capture the impacts associated with the final development footprint (the Development Footprints that pertains to the BAM). These revisions were made using the current BAM – Credit Calculator version, V61, that was updated on 22/06/2023. The BAM – Credit Calculator assessments have been re-submitted for agency review. Communication with the Biodiversity and Conservation Division (BCD) of the former Department of Planning, Industry and Environment (DPIE) confirmed this is the suitable approach for the credit finalisation. Specifically, this correspondence was received on 12 May 2022.

In October 2023, the two BAM-CC assessments for MOD 2 were updated with the final impact areas for PCTs and species credit species. The results of the additional 10 BAM – Vegetation Integrity Plots undertaken within the partial direct impact areas to accurately manipulate the future integrity scores in accordance with BAM. These additional BAM – Vegetation Integrity Plots were not imported into the BAM – CC but rather their integrity data was used to edit the future Composition, Structure and Function scores for the three vegetation zones that had been partially directly impacted.

The update, finalisation, and submission of the BAM – Credit Calculator was undertaken by Principal Ecologist and Accredited BAM Assessor, Bill Wallach (BAAS17068).

#### Prescribed Impact Assessment for the Removal of Non-Native Vegetation Supporting Golden Sun Moth

As described above in **Section 3.1.3**, a number of prescribed impacts were considered for the Project, including the removal of non-native vegetation supporting threatened species. This assessment was completed in accordance with Section 9.2.1.4 of the BAM 2017 (OEH 2017). We note that the prescribed impact assessment criteria for removal of non-native vegetation supporting threatened species is revised within the BAM 2020 (DPIE 2020). Umwelt carefully reviewed the differences in the criteria of the assessment and conclude the changes are marginal and non-consequential for the outcome of the assessment.

Furthermore, due to the extent and nature of the changes of the revised pre-construction final development footprint which extends outside of the Approved Development Corridor, Umwelt believe the approved methodology employed through the Rye Park Wind Farm – Biodiversity Development Assessment Report, Final (August 2020) (Umwelt 2020a), Rye Park Wind Farm – Impact Assessment Addendum (March 2021) (Umwelt 2021b) and Rye Park Wind Farm – MOD2 Confirmation of Credit Liabilities (Umwelt 2022) is appropriate.

As per the Rye Park Wind Farm – MOD2 Confirmation of Credit Liabilities (Umwelt 2022), full detail of this prescribed impact assessment is presented in the Rye Park Wind Farm – Biodiversity Development Assessment Report, Final (August 2020) (Umwelt 2020a) and the Rye Park Wind Farm – Impact Assessment Addendum (March 2021) (Umwelt 2021b).

## 4.0 Results

The sections below present the outcomes of the methods undertaken for the revised assessment of the revised pre-construction final development footprint.

### 4.1 Plant Community Types and Vegetation Zones

The additional detailed ecological surveys that were undertaken in the revised pre-construction final development footprint confirmed that Plant Community Types (PCTs) and Vegetation Zones were consistent with those that were identified for the previously approved MOD 1, assessed, and described in the Biodiversity Development Assessment Report (Umwelt 2020a) and the Impact Assessment Addendum (Umwelt 2021b). The particular PCTs and Vegetation Zones identified specifically in the revised pre-construction final development footprint are listed below:

- PCT 335 Tussock grass - sedgeland fen - rushland - reedland wetland in impeded creeks in valleys in the upper slopes sub-region of the NSW South Western Slopes Bioregion.
  - Moderate to Good (Vegetation Zone 2).
- PCT 350 Candlebark - Blakely's Red Gum - Long-leaved Box grassy woodland in the Rye Park to Yass region of the NSW South Western Slopes Bioregion and South Eastern Highland Bioregion.
  - Moderate to Good (Vegetation Zone 3).
- PCT 351 Brittle Gum - Broad-leaved Peppermint - Red Stringybark open forest in the north-western part (Yass to Orange) of the South Eastern Highlands Bioregion.
  - Moderate to Good (Vegetation Zone 5).
  - Derived Native Grassland (Vegetation Zone 6).
  - Acacia Shrubland (Vegetation Zone 7).
  - Sifton Bush Shrubland (Vegetation Zone 8).
  - Non-Native Vegetation (Vegetation Zone 10).

Vegetation zones that occur along the Cooks Hills Road component of the public road upgrades include:

- PCT 350 Candlebark - Blakely's Red Gum - Long-leaved Box grassy woodland in the Rye Park to Yass region of the NSW South Western Slopes Bioregion and South Eastern Highland Bioregion.
  - Moderate to Good (Vegetation Zone 3).
  - Derived Native Grassland (Vegetation Zone 4).
- PCT 351 Brittle Gum - Broad-leaved Peppermint - Red Stringybark open forest in the north-western part (Yass to Orange) of the South Eastern Highlands Bioregion.
  - Acacia Shrubland (Vegetation Zone 7).
  - Non-Native Vegetation (Vegetation Zone 10).

Full description and detail on these vegetation zones is provided in Biodiversity Development Assessment Report (Umwelt 2020a).

A summary of impacts to all PCTs and vegetation zones within the revised pre-construction final development footprint is provided in **Section 4.6**.

The extent of PCT and vegetation zones is presented in the **Appendix A** figure set.

Species polygons for the five species-credit species is presented in the **Appendix B** figure set.

The extent of threatened ecological communities is presented in the **Appendix C** figure set.

## **4.2 BAM – Credit Calculator**

The final impact areas and credit requirements for the Project are presented below in **Table 4.1**. Results are presented separately for the NSW – South Western Slopes and South Eastern Highlands IBRA Regions. Similarly, ecosystem-credit and species-credit requirements are presented separately. A comparison is made between the impact areas and credit liabilities of the previously approved MOD 1, from the Rye Park Wind Farm – Impact Assessment Addendum (March 2021) (Umwelt 2021b), Rye Park Wind Farm – Confirmation of Credit Liability (Umwelt 2021a), Rye Park Wind Farm – MOD2 Confirmation of Credit Liabilities (Umwelt 2022) and the final development footprint.

The revised vegetation integrity data from all BAM – Vegetation Integrity Plots completed for the Project is provided in **Appendix D**. This package of data includes the original BAM – Vegetation Integrity plots undertaken as part of the Modified Project Approval, the 9 additional BAM – Vegetation Integrity plots completed within revised pre-construction final development footprint and the 10 additional BAM – Vegetation Integrity Plots undertaken within the areas of partial direct impacts.

**Table 4.1 Final ecosystem and species-credit credit requirement for the Project (Final Impacts)**

Veg Zone	PCT/Species-credit	Indicative Area (SSD6693-MOD1) (ha) <sup>1</sup>	Indicative Credits Required	Pre-construction Final Area (ha) <sup>2</sup>	Change from EIS/SSD6693-MOD1 (ha)	Pre-construction Credits Required	MOD2 Indicative Area (SSD6693-MOD2) (ha) <sup>3</sup>	Change from Pre-construction Final Area (ha)	MOD2 Credits Required	Revised Pre-construction Final Area (ha)	Change from MOD2 Indicative Area (ha)	Revised Pre-construction Credits Required	Finalised Impact Area (ha)	Change from MOD2 Indicative Area (ha)	Finalised Credits Required
<b>Ecosystem Credits</b>															
<b>NSW – South Western Slopes IBRA Bioregion</b>															
1	289 Mugga Ironbark - Inland Scribbly Gum - Red Box shrub/grass open forest on hills in the upper slopes sub-region of the NSW South Western Slopes Bioregion	0.77	25	0.73	-0.04	24	0.73	-	24	0.73	-	24	0.48	-0.25	16
	<i>Moderate to Good</i>														
2	335 Tussock grass - sedgeland fen - rushland - reedland wetland in impeded creeks in valleys in the upper slopes sub-region of the NSW South Western Slopes Bioregion	4.88	117	4.22	-0.66	101	4.19	-0.03	110	4.19	-	110	2.81	-1.38	82
	<i>Moderate to Good</i>														
3	350 Candlebark - Blakely's Red Gum - Long-leaved Box grassy woodland in the Rye Park to Yass region of the NSW South Western Slopes Bioregion and South Eastern Highland Bioregion	9.76	305	8.11	-1.65	338	8.13	0.02	341	8.13	-	341	4.83	-3.3	218
	<i>Moderate to Good</i>														
4	350 Candlebark - Blakely's Red Gum - Long-leaved Box grassy woodland in the Rye Park to Yass region of the NSW South Western Slopes Bioregion and South Eastern Highland Bioregion	11.9	204	10.55	-1.35	226	10.42	-0.13	223	10.42	-	223	8.46	-1.96	179
	<i>Derived Native Grassland</i>														
5	351 Brittle Gum - Broad-leaved Peppermint - Red Stringybark open forest in the north-western part (Yass to Orange) of the South Eastern Highlands Bioregion	49.7	1,620	36.48	-13.22	1,241	35.67	-0.81	1,230	35.67	-	1,230	27.26	-8.41	886
	<i>Moderate to Good</i>														
6	351 Brittle Gum - Broad-leaved Peppermint - Red Stringybark open forest in the north-western part (Yass to Orange) of the South Eastern Highlands Bioregion	128.49	1,135	111.47	-17.02	985	112.4	0.93	908	112.4	-	908	95.33	-17.07	799
	<i>Derived Native Grassland</i>														
7	351 Brittle Gum - Broad-leaved Peppermint - Red Stringybark open forest in the north-western part (Yass to Orange) of the South Eastern Highlands Bioregion	2.98	61	3.51	0.53	72	4.15	0.64	97	4.15	-	97	2.99	-1.16	64
	<i>Acacia Shrubland</i>														

Veg Zone	PCT/Species-credit	Indicative Area (SSD6693-MOD1) (ha) <sup>1</sup>	Indicative Credits Required	Pre-construction Final Area (ha) <sup>2</sup>	Change from EIS/SSD6693-MOD1 (ha)	Pre-construction Credits Required	MOD2 Indicative Area (SSD6693-MOD2) (ha) <sup>3</sup>	Change from Pre-construction Final Area (ha)	MOD2 Credits Required	Revised Pre-construction Final Area (ha)	Change from MOD2 Indicative Area (ha)	Revised Pre-construction Credits Required	Finalised Impact Area (ha)	Change from MOD2 Indicative Area (ha)	Finalised Credits Required
8	351 Brittle Gum - Broad-leaved Peppermint - Red Stringybark open forest in the north-western part (Yass to Orange) of the South Eastern Highlands Bioregion	62.55	641	49.36	-13.19	506	49.37	0.01	506	49.37	-	506	37.59	-11.78	354
	<i>Sifton Bush Shrubland</i>														
9	351 Brittle Gum - Broad-leaved Peppermint - Red Stringybark open forest in the north-western part (Yass to Orange) of the South Eastern Highlands Bioregion	0.93	28	1.28	0.35	38	1.29	0.01	39	1.29	-	39	0.83	-0.46	23
	<i>Argyle Apple Forest</i>														
10	351 Brittle Gum - Broad-leaved Peppermint - Red Stringybark open forest in the north-western part (Yass to Orange) of the South Eastern Highlands Bioregion	76.73	0	71.72	-5.01	0	73.01	1.29	0	73.01	-	0	57.81	-15.2	0
	<i>Non-native Vegetation</i>														
<b>South Eastern Highlands IBRA Bioregion</b>															
1	289 Mugga Ironbark - Inland Scribbly Gum - Red Box shrub/grass open forest on hills in the upper slopes sub-region of the NSW South Western Slopes Bioregion	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	<i>Moderate to Good</i>														
2	335 Tussock grass - sedgeland fen - rushland - reedland wetland in impeded creeks in valleys in the upper slopes sub-region of the NSW South Western Slopes Bioregion	0.84	13	1.62	0.78	25	1.56	-0.06	27	1.56	-	27	0.96	-0.6	17
	<i>Moderate to Good</i>														
3	350 Candlebark - Blakely's Red Gum - Long-leaved Box grassy woodland in the Rye Park to Yass region of the NSW South Western Slopes Bioregion and South Eastern Highland Bioregion	10.16	271	11.12	0.96	386	11.12	-	394	11.22	0.1	398	11.05	-0.07	409
	<i>Moderate to Good</i>														
4	350 Candlebark - Blakely's Red Gum - Long-leaved Box grassy woodland in the Rye Park to Yass region of the NSW South Western Slopes Bioregion and South Eastern Highland Bioregion	5.63	100	3.34	-2.29	74	3.33	-0.01	74	3.34	0.01	74	3.48	0.15	76
	<i>Derived Native Grassland</i>														

Veg Zone	PCT/Species-credit	Indicative Area (SSD6693-MOD1) (ha) <sup>1</sup>	Indicative Credits Required	Pre-construction Final Area (ha) <sup>2</sup>	Change from EIS/SSD6693-MOD1 (ha)	Pre-construction Credits Required	MOD2 Indicative Area (SSD6693-MOD2) (ha) <sup>3</sup>	Change from Pre-construction Final Area (ha)	MOD2 Credits Required	Revised Pre-construction Final Area (ha)	Change from MOD2 Indicative Area (ha)	Revised Pre-construction Credits Required	Finalised Impact Area (ha)	Change from MOD2 Indicative Area (ha)	Finalised Credits Required
5	351 Brittle Gum - Broad-leaved Peppermint - Red Stringybark open forest in the north-western part (Yass to Orange) of the South Eastern Highlands Bioregion	33.13	1,025	29.29	-3.84	967	29.18	-0.11	976	29.18	-	976	23.22	-5.96	799
	<i>Moderate to Good</i>														
6	351 Brittle Gum - Broad-leaved Peppermint - Red Stringybark open forest in the north-western part (Yass to Orange) of the South Eastern Highlands Bioregion	46.43	447	45.86	-0.57	441	45.73	-0.13	403	45.73	-	403	36.71	-9.02	317
	<i>Derived Native Grassland</i>														
7	351 Brittle Gum - Broad-leaved Peppermint - Red Stringybark open forest in the north-western part (Yass to Orange) of the South Eastern Highlands Bioregion	5.71	91	5.31	-0.4	90	5.56	0.25	106	5.56	-	106	3.34	-2.22	69
	<i>Acacia Shrubland</i>														
8	351 Brittle Gum - Broad-leaved Peppermint - Red Stringybark open forest in the north-western part (Yass to Orange) of the South Eastern Highlands Bioregion	18.02	199	14.72	-3.3	163	14.72	-	163	14.72	-	163	12.4	-2.32	136
	<i>Sifton Bush Shrubland</i>														
9	351 Brittle Gum - Broad-leaved Peppermint - Red Stringybark open forest in the north-western part (Yass to Orange) of the South Eastern Highlands Bioregion	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	<i>Argyle Apple Forest</i>														
10	351 Brittle Gum - Broad-leaved Peppermint - Red Stringybark open forest in the north-western part (Yass to Orange) of the South Eastern Highlands Bioregion	34.35	0	39.56	5.21	0	40.81	1.25	0	40.82	0.01	0	33.12	-7.69	0
	<i>Non-native Vegetation</i>														
<b>Species Credits</b>															
<b>NSW – South Western Slopes IBRA Bioregion</b>															
-	striped legless lizard ( <i>Delma impar</i> )	43.07	326	41	-2.07	310	41	-	284	41	-	284	37.57	-3.43	270
-	southern myotis ( <i>Myotis macropus</i> )	<0.01	1	<0.01	-	1	<0.01	-	1	<0.01	-	1	0	0	0
-	squirrel glider ( <i>Petaurus norfolcensis</i> )	60.19	2,073	42.47	-17.72	1,607	44.45	1.98	1,702	44.45	-	1,702	33.40	-11.05	1,233
-	superb parrot (breeding habitat) ( <i>Polytelis swainsonii</i> )	9.76	305	8.11	-1.65	270	8.12	0.01	273	8.12	-	273	4.83	-3.29	175
-	golden sun moth ( <i>Synemon plana</i> )	57.66	895	50.73	-6.93	791	49.38	-1.35	702	49.38	-	702	43.71	-5.67	322

Veg Zone	PCT/Species-credit	Indicative Area (SSD6693-MOD1) (ha) <sup>1</sup>	Indicative Credits Required	Pre-construction Final Area (ha) <sup>2</sup>	Change from EIS/SSD6693-MOD1 (ha)	Pre-construction Credits Required	MOD2 Indicative Area (SSD6693-MOD2) (ha) <sup>3</sup>	Change from Pre-construction Final Area (ha)	MOD2 Credits Required	Revised Pre-construction Final Area (ha)	Change from MOD2 Indicative Area (ha)	Revised Pre-construction Credits Required	Finalised Impact Area (ha)	Change from MOD2 Indicative Area (ha)	Finalised Credits Required
<b>South Eastern Highlands IBRA Bioregion</b>															
-	squirrel glider ( <i>Petaurus norfolcensis</i> )	43.04	<b>1,434</b>	39.69	-3.35	<b>1,386</b>	40.14	0.45	<b>1,425</b>	40.24	0.1	<b>1,429</b>	<b>34.27</b>	<b>-5.87</b>	<b>1,240</b>
-	superb parrot (breeding habitat) ( <i>Polytelis swainsonii</i> )	10.16	<b>271</b>	11.12	0.96	<b>309</b>	11.12	-	<b>315</b>	11.22	0.1	<b>319</b>	<b>11.05</b>	<b>-0.07</b>	<b>327</b>
-	golden sun moth ( <i>Synemon plana</i> )	27.56	<b>489</b>	25.83	-1.73	<b>440</b>	26.94	1.11	<b>423</b>	26.94	-	<b>423</b>	<b>21.5</b>	<b>-5.44</b>	<b>167</b>

<sup>1</sup> Impact Assessment Addendum (Umwelt 2021b); <sup>2</sup> Confirmation of Credit Liability (Umwelt 2021a); <sup>3</sup> Confirmation of Credit Liability (Umwelt 2022)

## 4.3 Partial Impacts

Consistent in its application with the approved Project and as described above in **Section 3.1.4** and **Section 3.2.4**, Umwelt has operated the BAM-CC to apply a partial impact for vegetation zones 1, 3, 5, 7 and 9. This analysis is provided in **Table 4.2**. For areas identified as complete impact, the future vegetation integrity score is reduced to the default score of '0'. For areas identified as Direct Partial Impact, the Composition, Structure and Function scores have been manually edited in accordance with BAM (2017) to capture the biodiversity values that are assessed as persisting.

**Table 4.2 Direct Partial Impacts of the Project**

Vegetation Zone	PCT and Condition Zone	Complete Impact (ha)	Direct Partial Impact (ha)	Total Impact (ha)
<b>NSW – South Western Slopes IBRA Bioregion</b>				
Vegetation Zone 3	350 Candlebark - Blakely's Red Gum - Long-leaved Box grassy woodland in the Rye Park to Yass region of the NSW South Western Slopes Bioregion and South Eastern Highland Bioregion <i>Moderate to Good</i>	3.94	0.89	4.83
Vegetation Zone 5	351 Brittle Gum - Broad-leaved Peppermint - Red Stringybark open forest in the north-western part (Yass to Orange) of the South Eastern Highlands Bioregion <i>Moderate to Good</i>	25.44	1.82	27.26
<b>South Eastern Highlands IBRA Bioregion</b>				
Vegetation Zone 3	350 Candlebark - Blakely's Red Gum - Long-leaved Box grassy woodland in the Rye Park to Yass region of the NSW South Western Slopes Bioregion and South Eastern Highland Bioregion <i>Moderate to Good</i>	7.51	3.54	11.05
Vegetation Zone 5	351 Brittle Gum - Broad-leaved Peppermint - Red Stringybark open forest in the north-western part (Yass to Orange) of the South Eastern Highlands Bioregion <i>Moderate to Good</i>	20.43	2.79	23.22
Vegetation Zone 7	351 Brittle Gum - Broad-leaved Peppermint - Red Stringybark open forest in the north-western part (Yass to Orange) of the South Eastern Highlands Bioregion <i>Acacia Shrubland</i>	2.66	0.68	3.34

## 4.4 Impacts on Threatened Ecological Communities

The Project has impacted a total of 27.82 hectares of *White Box - Yellow Box - Blakely's Red Gum Grassy Woodland and Derived Native Grassland in the NSW North Coast, New England Tableland, Nandewar, Brigalow Belt South, Sydney Basin, South Eastern Highlands, NSW South Western Slopes, South East Corner and Riverina Bioregions* (referred to hereafter as 'White Box - Yellow Box - Blakely's Red Gum Grassy Woodland and Derived Native Grassland') CEEC under the BC Act within vegetation zones 3 (15.88 ha) and 4 (11.94 ha) (**Appendix C**).

The Project has impacted a total of 27.08 hectares of White Box Yellow Box Blakely's Red Gum Grassy Woodland and Derived Native Grassland CEEC under the EPBC Act within vegetation zones 3 (15.66 ha) and 4 (11.42 ha).

There is a difference of 0.74 hectares between the impacts of White Box - Yellow Box - Blakely's Red Gum Grassy Woodland and Derived Native Grassland' CEEC under the BC Act (27.82 hectares), compared to White Box Yellow Box Blakely's Red Gum Grassy Woodland and Derived Native Grassland CEEC under the EPBC Act (27.08 ha). This discrepancy relates to a small number of patches of PCT 350 Vegetation Zone 3 and Vegetation Zone 4 not meeting the condition thresholds for the EPBC Act listed community.

**Table 4.3** presents a summary of credits generated that align with the BC Act and EPBC Act listed CEECs, as the CEEC boundaries are not entirely consistent with the vegetation zones. Within the BAM – Credit Calculator, it is not possible to differentiate between the extent of vegetation zones which are identified as the BC Act listed CEEC and EPBC Act listed CEEC, or vice versa. In fact, the BAM – Credit Calculator only allows for the BC Act listed CEEC to be selected. In which case, the BAM – Credit Calculator assessment has been finalised and submitted identifying Vegetation Zones 3 and 4 as being the BC Act listed CEEC. Umwelt has then used these vegetation zones as proxies to determine the credit requirement specifically relating to the EPBC Act listed CEEC. Specifically, we used the area of impact and credit requirement to determine a ratio of credits per hectare, which we then applied to the area of impact identified for the EPBC Act listed CEEC to identify its specific credit requirement (**Table 4.3**).

It is important to note that the total proportional number of CEEC credits under the BC Act and/or EPBC Act are not in addition to those credits identified in Section 4.1. Of the total number of credits required for impact to Vegetation Zone 3 and Vegetation Zone 4, **Table 4.3** presents the amount which need to align with the BC Act and EPBC Act listed CEECs.

The extent of White Box - Yellow Box - Blakely's Red Gum Grassy Woodland and Derived Native Grassland CEEC listed under the BC Act and White box - yellow box - Blakely's red gum grassy woodlands and derived native grasslands CEEC listed under the EPBC Act associated with the Project is presented in the **Appendix C** figure set.

**Table 4.3 Credit Generation from the BC Act and EPBC Listed CEECs**

	White Box - Yellow Box - Blakely's Red Gum Grassy Woodland and Derived Native Grassland CEEC (BC Act)		White box - yellow box - Blakely's red gum grassy woodlands and derived native grasslands CEEC (EPBC Act)	
	Vegetation Zone 3 <i>Moderate to Good</i>	Vegetation Zone 4 <i>Derived Native Grassland</i>	Vegetation Zone 3 <i>Moderate to Good</i>	Vegetation Zone 4 <i>Derived Native Grassland</i>
<b>Total Area of Vegetation Zone (ha)</b>	15.88	11.94	15.88	11.94
<b>Total Credits</b>	627	255	627	255
<b>Total Area of CEEC (ha)</b>	15.88	11.94	15.66	11.42
<b>Proportion of Vegetation Zone that is CEEC</b>	100.00%	100.00%	98.61%	95.64%
<b>Proportional Number of CEEC Credits per Vegetation Zone<sup>1</sup></b>	627	255	618	244
<b>Total Proportional Number of CEEC Credits<sup>1</sup></b>	882		862	

<sup>1</sup> Rounded to the nearest whole number.

## 4.5 Prescribed Impacts Assessment – Non-Native Vegetation Supporting Golden Sun Moth Habitat

Based on the revised analysis of golden sun moth habitat within the final development footprint, a total of 24.92 ha of vegetation zone 10 (Non-native Vegetation) occur within the golden sun moth species polygon (**Appendix B**). This impact on golden sun moth represents a **1.25 ha reduction** compared to that assessed and presented in the Rye Park Wind Farm – MOD2 Confirmation of Credit Liabilities (Umwelt 2022). The combined impact on golden sun moth, being native vegetation assessed as the species polygon addressed (**Section 4.1**) and non-native vegetation assessed in this Section is 90.14 hectares.

As described above in **Section 3.1.3**, the prescribed impact assessment has been updated for the impacts of the Project on non-native vegetation that supports golden sun moth. This updated assessment is presented below in **Table 4.4**. This assessment has been undertaken in accordance with Section 9.2.1.4 of the BAM 2017 (OEH 2017).

**Table 4.4 Prescribed Impact Assessment of Non-Native Vegetation Supporting Golden Sun Moth**

Criteria	Response
<p>The assessment of the impacts of development on the habitat of threatened species or ecological communities associated with non-native vegetation must:</p>	
<p>a) identify the species and ecological communities likely to use the habitat</p>	<p>The golden sun moth has been recorded at several locations within the Development Footprints during surveys conducted by NGH and Umwelt. Consistent with the impact assessment for this species in the Biodiversity Assessment and Biodiversity Assessment Addendum (NGH Environmental 2014 and 2016), species habitat polygons were developed based on the extent of Vegetation Zones 4 and 6 (i.e., recorded DNGs) that intersect with 200 m buffers of known records for the species. As a result, 24.92 ha of non-native vegetation fall within the species polygon for the species.</p> <p>This non-native vegetation comprises grassland areas have been extensively cleared of native flora species through intensive and historic agricultural land use. They predominantly support exotic grasses and herbs, the most abundant including squirrel tail fescue (<i>Vulpia bromoides</i>), soft brome (<i>Bromus hordeaceus</i>), silvery hairgrass (<i>Aira cupaniana</i>), prairie grass (<i>Bromus catharticus</i>), red brome (<i>Bromus rubens</i>) and paspalum (<i>Paspalum dilatatum</i>). A full description of this mapping unit is provided in Section 3.2.2 of the current BDAR (Umwelt 2020).</p> <p>While these areas occur within the habitat buffers for the golden sun moth, it is noted that the presence of native grass species utilised by the golden sun moth (i.e., <i>Rytidosperma</i> spp. and <i>Aurolastipa</i> spp.) in these areas generally occur in close proximity to the mapped PCT 350 and PCT 351 DNGs. As distances from these PCTs increase, it is likely that so do occurrences of exotic pasture weeds that do not facilitate foraging or breeding for the species. Currently, the species is only known to occur in degraded grasslands when they are dominated by the exotic Chilean needlegrass (<i>Nassella nessiana</i>) (DEWHA 2009a), which has not been recorded within any of the areas of Non-native Vegetation occurring in the Development Footprints.</p> <p>Therefore, while this assessment includes the total 24.92 ha of non-native vegetation which occurs within the golden sun moth habitat buffers, it is likely that the area of non-native vegetation with potential to be utilised by the species is considerably lower. Those areas of non-native vegetation used by the species would be based on the sporadic presence of native grass species and are considered sub-optimal habitat.</p>
<p>b) describe the nature, extent, and duration of short and long-term impacts</p>	<p>The Project will result in direct and indirect impacts, which are described in full in Section 5.1 of the current BDAR (Umwelt 2020).</p> <p>Short-term indirect impacts will include non-native vegetation within and surrounding golden sun moth habitat buffers being subject to potential increase in erosion, dust pollution, noise and vibration during construction works. These will occur across the Development Footprints for approximately two years. Much of the Development Corridor is exposed to historical and ongoing disturbances from grazing and other agricultural pressures. The extent and risk of indirect impacts from construction activities associated with the Project is considered to be consistent with those presented, discussed, and assessed as part of the original approval, including Biodiversity Assessment (NGH Environmental 2014) and Biodiversity Assessment Addendum (NGH Environmental 2016).</p> <p>Long-term impacts will include the removal of up to 24.92 ha of non-native vegetation which occurs in areas where the Development Footprints intersect with golden sun moth habitat buffers. This may result in initial species decline due to mortality of adults and larvae during the clearing process. The removal of vegetation may also lead to (additional) feral weed encroachment to adjacent areas over time. Given the occurrence of existing weeds in habitat areas, the</p>

Criteria	Response
	<p>Project is unlikely to introduce invasive species such as weeds that are harmful to the golden sun moth or its habitat.</p> <p>Despite the Project undergoing a modification, the components of indirect and peripheral impacts remain unchanged in nature and extent.</p>
<p>c) describe, with reference to relevant literature and other reliable published sources of information, the importance within the bioregion of the habitat to these species or ecological communities</p>	<p>The Saving Our Species (SOS) report for the golden sun moth (OEH 2020) identifies two key management sites for the species: Site 1 – Upper Lachlan and Site 2 – Gundaroo/Queanbeyan. Areas within the Development Corridor occur in the Upper Lachlan Management Site, which encompasses Rye Park, the town of Kangiara and stretches across to Blakney Creek in the east. This covers a total area of approximately 140,664 ha where objectives for minimising the impacts of commercial activities and maintaining low weed densities are in place. The areas of non-native vegetation forming potential golden sun moth habitat which will be removed by the Project comprise sub-optimal habitat which is not currently being managed in a way that is consistent with the SOS management objectives (i.e., reducing and maintaining weed densities through active weed control at priority sites). Therefore, although some patches of the Development Corridor fall within the Upper Lachlan Priority Site, it is considered unlikely that the removal of non-native vegetation within these areas will significantly affect the SOS objective to secure the species in the long term within this region.</p> <p>The <i>Significant Impact Guidelines for the Critically Endangered Golden Sun Moth (Synemon plana)</i> (DEWHA 2009a) specify that the species is only known to occur in degraded grasslands when they are dominated by the exotic Chilean needlegrass (<i>Nassella nessiana</i>). This species was not recorded within any of the non-native vegetation areas to be cleared during surveys, and it is likely that these areas would only be used by the species based on the sporadic presence of native grasses. Furthermore, this species has not been recorded through any ecological surveys completed for the Project. There are extensive areas (i.e., several thousand hectares) of suitable habitat for the golden sun moth mapped as Yellow Box-Apple Box Grassy Woodlands in the NSW – South Western Slopes and South Eastern Highlands IBRA bioregions (Gellie 2005). These have groundcovers dominated by the species’ preferred native grasses, including wallaby grass (<i>Rytidosperma racemosum</i> var. <i>racemosum</i>), kangaroo grass (<i>Themeda australis</i>), weeping grass (<i>Microlaena stipoides</i> var. <i>stipoides</i>) and speargrass (<i>Austrostipa scabra</i>), and are likely to be similar to golden sun moth habitat areas found in the Development Corridor. These grasses are essential in the maintenance of important life cycle processes for the species, as golden sun moth larvae feed exclusively on the roots of wallaby grasses (DPIE 2019). With this abundance of higher quality foraging and breeding habitat for the species in the wider region, areas of non-native vegetation would likely be utilised only by very small proportion of the species within the local area, and thus a negligible proportion of the species within the wider region.</p> <p>Additionally, there are several areas where the species is found or considered likely to occur within the relevant bioregions which are protected. These include Goorooyaroo Nature Reserve, Bango Nature Reserve, McLeod’s Creek Nature Reserve, Oakdale Nature Reserve (OEH 2015) and the Yass River Gorge Council reserve (Yass Valley Council 2017).</p> <p>Taking into account the above information, it is considered that the non-native vegetation to be impacted by the Project may potentially be utilised by local populations of the golden sun moth but is unlikely to constitute important habitat for the species within the relevant bioregions.</p>
<p>d) predict the consequences of the impacts for the local and</p>	<p>The removal of 24.92 hectares of non-native vegetation will potentially have impacts on local populations occurring in these areas due to their limited dispersal ability. Clearing works may lead to mortality of both adults and larvae utilising</p>

Criteria	Response
<p>bioregional persistence of the suite of threatened species and communities likely to use these areas as habitat, with reference to relevant literature and other published sources of information</p>	<p>sporadic native grasses within Non-native Vegetation, as females of the species are generally reluctant to fly and males will not fly greater than 100 m (DPIE 2019). However, the number of individuals utilising non-native vegetation is expected to be a small proportion of the local population due to the species' preference for intact native grasslands (DEWHA 2009). Currently, the species is only known to occur in degraded grasslands when they are dominated by the exotic Chilean needlegrass (<i>Nassella nessiana</i>) (DEWHA 2009a), which has not been recorded within any of the areas of non-native vegetation occurring in the Development Footprints or the Project as a whole. It is recognised that one of the major threats to the golden sun moth is the loss of their preferred habitat by vigorous exotic pasture grasses introduced for livestock grazing, nutrient enrichment, and pasture cultivation (O'Dwyer &amp; Attiwill 2000; DEWHA 2009a). As such, the non-native vegetation to be removed provides sub-optimal habitat for the species, and the impacts are not expected to affect the persistence of the golden sun moth in the local area.</p> <p>With regards to the wider ACT/NSW population, the areas of non-native vegetation are surrounded by vast amounts of higher quality native grassland habitat in the NSW – South Western Slopes, and South Eastern Highlands IBRA bioregions (Gellie 2005). These areas have groundcovers dominated by native grasses which are essential in the maintenance of important life cycle processes for the species, as golden sun moth larvae feed exclusively on the roots of wallaby grasses (DPIE 2019). Therefore, these areas would constitute habitat important to the persistence of the species and are likely the ones where minimising impacts and actively managing weeds would be of the most value. Additionally, the area of non-native vegetation to be removed is negligible when viewed in the regional context. Generally larger areas of connected habitat are considered the priority for protection of golden sun moth over the long-term (DEWHA 2009a). As populations separated by distances of greater than 200 m can be considered effectively isolated (DPIE 2019a and 2019b), regional populations are not expected to be affected by the Development.</p> <p>It is not considered likely that the removal of non-native vegetation occurring in golden sun moth habitat buffers will affect any populations in such a way that they will become extinct or have their movement restricted so that existing dispersal patterns are significantly affected. Consequences of the removal of 24.92 ha of non-native vegetation are considered to be minor on both a local and regional scale.</p>

## 4.6 Result Summary

The tables provided in this section summarise the impacts of the final development footprint against the previous designs as clearly as possible. **Table 4.5** initially summarises the impacts of the Project per Vegetation Zone, **Table 4.6** then summarises the same impacts but for consolidated PCTs. Lastly, **Table 4.7** summarises the impacts for the Project per species-credit species.

**Table 4.8** presents the revised pre-construction final impacts of the Project, including a comparison of impacts between the Project approved biodiversity assessments (Umwelt 2020a and Umwelt 2021) and the revised assessment prepared to determine the final credit requirements based on the surveyed post-construction disturbance of the Project.

When compared against the MOD2 Confirmation of Credit Liabilities (Umwelt 2022), the final impacts of all PCTs and species credit species have been reduced. The final footprint reduced golden sun moth impacts by 11.1 ha, striped legless lizard impacts by 3.43 ha, superb parrot impacts by 3.36 ha, squirrel glider impacts by 16.92 ha, while southern myotis impacts were avoided completely. A summary of the comparison of impacts is provided below:

- Striped legless lizard:
  - 37.57 ha of impact has occurred in the final development footprint, a **reduction of 3.43 ha** compared with the MOD2 Confirmation of Credit Liabilities (Umwelt 2022).
- Superb parrot:
  - 15.88 ha of impact has occurred in the final development footprint, a **reduction of 3.36 ha** compared with the MOD2 Confirmation of Credit Liabilities (Umwelt 2022).
  - Removal of two suitable breeding trees along Cooks Hill Road associated with the required public road upgrades. No breeding or use of the trees by superb parrot was observed.
- Golden sun moth:
  - 65.22 ha of impact has occurred in the final development footprint, a **reduction of 11.1 ha** compared with the MOD2 Confirmation of Credit Liabilities (Umwelt 2021a).
- Squirrel glider:
  - 67.67 ha of impact has occurred in the final development footprint, a **reduction of 16.92 ha** compared with the MOD2 Confirmation of Credit Liabilities (Umwelt 2022).

With comparison to the MOD2 Confirmation of Credit Liabilities (Umwelt 2022), all PCTs have reduced impacts. Further, impacts to the two threatened ecological communities have also had reduced impacts when compared to the MOD2 Confirmation of Credit Liabilities (Umwelt 2022), a summary is provided below:

- White Box - Yellow Box - Blakely's Red Gum Grassy Woodland and Derived Native Grassland' ) CEEC under the BC Act.
  - 27.82 ha of impact has occurred within the final development footprint, a **reduction of 5.18 ha** compared with the MOD2 Confirmation of Credit Liabilities (Umwelt 2021a).
- White Box Yellow Box Blakely's Red Gum Grassy Woodland and Derived Native Grassland CEEC under the EPBC Act.
  - 27.08 ha of impact has occurred within the final development footprint, a **reduction of 4.02 ha** compared with the MOD2 Confirmation of Credit Liabilities (Umwelt 2021a).

**Table 4.5 Summary of Impacts per Vegetation Zone**

Veg Zone	PCT/Species-credit	Indicative Area (SSD6693-MOD1) (ha) <sup>1</sup>	Pre-construction Final Area (ha) <sup>2</sup>	Pre-construction Final Change to MOD1 (ha)	Indicative Area (SSD-6693-MOD2) (ha) <sup>3</sup>	MOD 2 Change to Pre-construction Final (ha)	Revised Pre-construction Final Area (ha)	Revised Pre-construction Final Change to MOD2 (ha)	Finalised Impact Areas (ha)	Finalised Impact Areas to MOD 2 (ha)
1	289 Mugga Ironbark - Inland Scribbly Gum - Red Box shrub/grass open forest on hills in the upper slopes sub-region of the NSW South Western Slopes Bioregion	0.77	0.73	-0.04	0.73	-	0.73	-	0.48	-0.25
	<i>Moderate to Good</i>									
2	335 Tussock grass - sedgeland fen - rushland - reedland wetland in impeded creeks in valleys in the upper slopes sub-region of the NSW South Western Slopes Bioregion	5.72	5.84	0.12	5.75	-0.09	5.75	-	3.76	-1.99
	<i>Moderate to Good</i>									
3	350 Candlebark - Blakely's Red Gum - Long-leaved Box grassy woodland in the Rye Park to Yass region of the NSW South Western Slopes Bioregion and South Eastern Highland Bioregion	19.92	19.23	-0.69	19.25	0.02	19.35	0.1	15.88	-3.37
	<i>Moderate to Good</i>									
4	350 Candlebark - Blakely's Red Gum - Long-leaved Box grassy woodland in the Rye Park to Yass region of the NSW South Western Slopes Bioregion and South Eastern Highland Bioregion	17.53	13.89	-3.64	13.75	-0.14	13.76	0.01	11.94	-1.81
	<i>Derived Native Grassland</i>									
5	351 Brittle Gum - Broad-leaved Peppermint - Red Stringybark open forest in the north-western part (Yass to Orange) of the South Eastern Highlands Bioregion	82.83	65.77	-17.06	64.85	-0.92	64.85	-	50.48	-14.37
	<i>Moderate to Good</i>									
6	351 Brittle Gum - Broad-leaved Peppermint - Red Stringybark open forest in the north-western part (Yass to Orange) of the South Eastern Highlands Bioregion	174.92	157.33	-17.59	158.13	0.8	158.13	-	132.04	-26.09
	<i>Derived Native Grassland</i>									
7	351 Brittle Gum - Broad-leaved Peppermint - Red Stringybark open forest in the north-western part (Yass to Orange) of the South Eastern Highlands Bioregion	8.69	8.82	0.13	9.71	0.89	9.71	-	6.33	-3.38
	<i>Acacia Shrubland</i>									
8	351 Brittle Gum - Broad-leaved Peppermint - Red Stringybark open forest in the north-western part (Yass to Orange) of the South Eastern Highlands Bioregion	80.57	64.08	-16.49	64.09	0.01	64.09	-	49.99	-14.1
	<i>Sifton Bush Shrubland</i>									
9	351 Brittle Gum - Broad-leaved Peppermint - Red Stringybark open forest in the north-western part (Yass to Orange) of the South Eastern Highlands Bioregion	0.93	1.28	0.35	1.29	0.01	1.29	-	0.83	-0.46
	<i>Argyle Apple Forest</i>									
10	351 Brittle Gum - Broad-leaved Peppermint - Red Stringybark open forest in the north-western part (Yass to Orange) of the South Eastern Highlands Bioregion	111.08	111.28	0.2	113.82	2.54	113.83	0.01	90.93	-22.89
	<i>Non-native Vegetation</i>									

<sup>1</sup> Impact Assessment Addendum (Umwelt 2021b); <sup>2</sup> Confirmation of Credit Liabilities (Umwelt 2021a); <sup>3</sup> Confirmation of Credit Liability (Umwelt 2022)

**Table 4.6 Summary of Impacts per PCT**

PCT Description	Indicative Impacts (SSD6693-MOD1) <sup>1</sup>	Pre-construction Final Impacts <sup>2</sup>	Indicative Impacts (SSD6693-MOD2) <sup>3</sup>	Revised Pre-construction Final Impacts <sup>2</sup>	Comparison of MOD2 / Revised Pre-Construction Final	Final Impacts <sup>2</sup>	Comparison of MOD2 / Final
	Area (ha)	Area (ha)	Area (ha)	Area (ha)	Area (ha)	Area (ha)	Area (ha)
289-Mugga Ironbark - Inland Scribbly Gum - Red Box shrub/grass open forest on hills in the upper slopes sub-region of the NSW South Western Slopes Bioregion	0.77	0.73	0.73	0.73	-	0.48	-0.25
335-Tussock grass - sedgeland fen - rushland - reedland wetland in impeded creeks in valleys in the upper slopes sub-region of the NSW South Western Slopes Bioregion	5.72	5.84	5.75	5.75	-	3.76	-1.99
350- Candlebark - Blakely's Red Gum - Long-leaved Box grassy woodland in the Rye Park to Yass region of the NSW South Western Slopes Bioregion and South Eastern Highland Bioregion	37.45	33.12	33	33.11	0.11	27.82	-5.18
351-Brittle Gum - Broad-leaved Peppermint - Red Stringybark open forest in the north-western part (Yass to Orange) of the South Eastern Highlands Bioregion	459.02	408.56	411.89	411.9	0.01	330.6	-81.29

<sup>1</sup> Impact Assessment Addendum (Umwelt 2021b); <sup>2</sup> Confirmation of Credit Liabilities (Umwelt 2021a)

**Table 4.7 Summary of Impacts per Species-credit Species**

Species-credit Species	Indicative Impacts (SSD6693-MOD1)	Pre-construction Final Impacts	Indicative Impacts (SSD6693-MOD2)	Revised Pre-construction Final Impacts	Comparison of MOD2 / Revised Pre-Construction Final	Final Impacts	Comparison of MOD2 / Final
	Area (ha)	Area (ha)	Area (ha)	Area (ha)	Area (ha)	Area (ha)	Area (ha)
Striped legless lizard	43.07	41.00	41	41	-	37.57	-3.43
Superb parrot	19.92	19.23	19.24	19.34	0.1	15.88	-3.36
Golden sun moth	85.22	76.56	76.32	76.32	-	65.22	-11.1
Squirrel glider	103.23	82.16	84.59	84.69	0.1	67.67	-16.92
Southern myotis	<0.01	<0.01	<0.01	<0.01	-	0	<0.01

**Table 4.8 Comparison of the indicative and revised pre-construction impact analysis**

	Indicative Areas (SSD 6693-MOD1) (ha) <sup>3</sup>	MOD 1 Indicative Credits	Pre-construction Final Areas (ha) <sup>6</sup>	Pre-construction Credits	Area Change to SSD6693-MOD 1 (ha)	Credit Change to MOD 1	Indicative Areas (SSD6693-MOD2) (ha) <sup>7</sup>	MOD 2 Indicative Credits	Area Change to Pre-construction Final	Credit Change to Pre-construction Final	Revised Pre-construction Final Areas (ha)	Revised Area Change (ha)	Revised Credit Liability (ha)	Credit Change (to MOD2)	Final Impact Areas (ha)	Final Area Change (ha)	Final Credit Liability	Credit Change (to MOD2)
<b>Non-listed</b>																		
<b>PCT 289 (Vegetation Zone 1)</b>	0.77	25	0.73	24	-0.04	-1	0.73	24	-	-	0.73	-	24	-	0.48	-0.25	16	-8
<b>PCT 335 (Vegetation Zone 2)</b>	5.72	130	5.84	126	0.12	-4	5.75	137	-0.09	11	5.75	-	137	-	3.76	-1.99	99	-38
<b>PCT 351 – Native (Vegetation Zones 5 - 9)</b>	347.94	5,247	297.28	4,503	-50.66	-744	289.07	4,428	-8.21	-75	298.07	-	4,428	-	239.67	-49.4	3447	-981
<b>PCT 351 – Non-native (Vegetation Zone 10)</b>	111.08	-	111.28	-	0.2	-	113.82	-	2.54	-	113.83	0.01	0	-	90.93	-22.89	0	-
<b>BC Act and EPBC Act Listed</b>																		
<b>Striped Legless Lizard</b>	43.07	326	41	310	-2.07	-16	41	284	-	-26	41	-	284	-	37.57	-3.43	270	-14
<b>Superb Parrot</b>	19.92	576	19.23	579	-0.69	3	19.24	588	0.01	9	19.34	0.1	592	4	15.88	-3.36	502	-86
<b>Golden Sun Moth</b>	85.22	1,384	76.56	1,231	-8.66	-153	76.32	1,125	0.24	-106	76.32	-	1,125	-	65.22	-11.1	489	-636
<b>BC Act Listed</b>																		
<b>Box Gum Woodland CEEC (BC Act)<sup>1</sup></b>	37.34	878	33.02	1,022	-4.32	144	33	1,032	-0.02	10	33.11	0.11	1,036	4	27.82	-5.18	882	-150
<b>Squirrel Glider</b>	103.23	3,507	82.16	2,993	-21.07	-514	84.59	3,127	2.43	134	84.69	0.1	3,131	4	67.67	-16.92	2473	-654
<b>Southern Myotis</b>	<0.01	1	<0.01	1	-	-	<0.01	1	-	-	<0.01	-	1	-	0	<0.01	0	-1

	Indicative Areas (SSD 6693-MOD1) (ha) <sup>3</sup>	MOD 1 Indicative Credits	Pre-construction Final Areas (ha) <sup>6</sup>	Pre-construction Credits	Area Change to SSD6693-MOD 1 (ha)	Credit Change to MOD 1	Indicative Areas (SSD6693-MOD2) (ha) <sup>7</sup>	MOD 2 Indicative Credits	Area Change to Pre-construction Final	Credit Change to Pre-construction Final	Revised Pre-construction Final Areas (ha)	Revised Area Change (ha)	Revised Credit Liability (ha)	Credit Change (to MOD2)	Final Impact Areas (ha)	Final Area Change (ha)	Final Credit Liability	Credit Change (to MOD2)
EPBC Act Listed																		
<b>Box Gum Woodland (EPBC Act)<sup>2</sup></b>	35.54	Not calculated at the time <sup>4</sup>	31.23	972	-4.31	Not Possible <sup>5</sup>	31.1	979	-0.13	7	31.21	0.11	983	4	27.08	-4.02	862	-117

<sup>1</sup> White Box Yellow Box Blakely's Red Gum Grassy Woodland and Derived Native Grassland CEEC (BC Act)

<sup>2</sup> White box - yellow box - Blakely's red gum grassy woodlands and derived native grasslands CEEC (EPBC Act)

<sup>3</sup> Impact Assessment Addendum (Umwelt 2021b)

<sup>4</sup> The area of impact on the EPBC Act listed CEEC was assessed and presented within the Impact Assessment Addendum (Umwelt 2021b), however the proportion of credits was not calculated at that time.

<sup>5</sup> In the absence of the previous calculation being completed, there is no ability to compare the credit requirements.

<sup>6</sup> Confirmation of Credit Liabilities (Umwelt 2021a)

<sup>7</sup> Confirmation of Credit Liabilities (Umwelt 2022)

## 5.0 Matters of National Environmental Significance

The additional Biodiversity Assessment undertaken for MOD2 or the additional public road upgrades within the final development footprint did not identify new Matters of National Environmental Significance (MNES) applicable to the Project. In summary, the final development footprint proposes to impact the same MNES identified, assessed, and approved through MOD2 and EPBC 2020/8837. The MNES impacted as part of the Project are listed below:

- White Box Yellow Box Blakely's Red Gum Grassy Woodland and Derived Native Grassland CEEC under the EPBC Act: 27.08 ha of impact has occurred within the final development footprint MOD 2, a reduction of 4.02 hectares compared with the MOD2 Confirmation of Credit Liabilities (Umwelt 2022).
- Striped legless lizard (V – EPBC Act): 37.57 hectares of impact has occurred within the final development footprint MOD 2, a reduction of 3.43 hectares compared with the MOD2 Confirmation of Credit Liabilities (Umwelt 2022).
- Superb parrot (V – EPBC Act): 15.88 ha of impact has occurred within the final development footprint MOD 2, a reduction of 3.36 hectares compared with the MOD2 Confirmation of Credit Liabilities (Umwelt 2022). Removal of two suitable breeding trees along Cooks Hill Road associated with the required public road upgrades. No breeding or use of the trees by superb parrot was observed. These trees will be removed under the strict tree felling criteria stipulated in the BMP.
- Golden sun moth (V – EPBC Act): 65.22 ha of impact has occurred within the final development footprint MOD 2, a reduction of 11.10 ha compared with the MOD2 Confirmation of Credit Liabilities (Umwelt 2022).

## 6.0 Credit Summary

A summary of the final credit liability for the Project is provided below in **Table 6.1**, including a comparison against the previous assessments. This final confirmation of biodiversity offset credit requirement for the Project has been completed in accordance with the commitments of the Rye Park Wind Farm Offset Strategy to confirm the final biodiversity credits required to be retired for the Project. The final credit requirements specifically relating to the BC Act and EPBC Act listed CEECs is presented above in **Table 4.3**. Those credit requirements specifically relating to those CEECs relate to a proportion of the credits identified for PCT 350 in **Table 6.1** below i.e., the credits are not in addition to.

The biodiversity credit reports for both BAM – Credit Calculator assessments submitted for the Project are provided in **Appendix E** and **Appendix F**. Both appendices include the like-for-like and variation biodiversity credit reports, noting that the variation rules do not apply to those threatened species or ecological communities listed under the Commonwealth EPBC Act.

**Table 6.1 Ecosystem and Species-credit Credit Classes**

	Indicative Impacts (SSD6693-MOD1) <sup>1</sup>		Pre-construction Final Impacts <sup>2</sup>		Indicative Impacts (SSD6693-MOD2) <sup>3</sup>		Revised Pre-construction Final Impacts		Final Impacts	
	Area (ha)	Total Credits	Area (ha)	Total Credits	Area (ha)	Total Credits	Area (ha)	Total Credits	Area (ha)	Total Credits
<b>SWS IBRA Region</b>										
<b>Ecosystem Credits</b>										
289-Mugga Ironbark - Inland Scribbly Gum - Red Box shrub/grass open forest on hills in the upper slopes sub-region of the NSW South Western Slopes Bioregion	0.77	25	0.73	24	0.73	24	0.73	24	0.48	16
335-Tussock grass - sedgeland fen - rushland - reedland wetland in impeded creeks in valleys in the upper slopes sub-region of the NSW South Western Slopes Bioregion	4.88	117	4.22	101	4.19	110	4.19	110	2.81	82
350- Candlebark - Blakely's Red Gum - Long-leaved Box grassy woodland in the Rye Park to Yass region of the NSW South Western Slopes Bioregion and South Eastern Highland Bioregion	21.66	509	18.66	564	18.55	564	18.55	564	13.29	397
351-Brittle Gum - Broad-leaved Peppermint - Red Stringybark open forest in the north-western part (Yass to Orange) of the South Eastern Highlands Bioregion (including Vegetation Zone 10 – Non-native Vegetation)	321.38	3,485	273.82	2,842	275.89	2,780	275.89	2,780	221.81	2,126
<b>Species-credit Credits</b>										
striped legless lizard ( <i>Delma impar</i> )	43.07	326	41.00	310	41.00	284	41.00	284	37.57	270
southern myotis ( <i>Myotis macropus</i> )	<0.01	1	<0.01	1	<0.01	1	<0.01	1	0	0
squirrel glider ( <i>Petaurus norfolcensis</i> )	60.19	2,073	42.47	1,607	44.45	1,702	44.45	1,702	33.40	1,233
superb parrot (breeding habitat) ( <i>Polytelis swainsonii</i> )	9.76	305	8.11	270	8.12	273	8.12	273	4.83	175
golden sun moth ( <i>Synemon plana</i> )	57.66	895	50.73	791	49.38	702	49.38	702	43.71	322
<b>SEH IBRA Region</b>										
<b>Ecosystem Credits</b>										
289-Mugga Ironbark - Inland Scribbly Gum - Red Box shrub/grass open forest on hills in the upper slopes sub-region of the NSW South Western Slopes Bioregion	-	-	-	-	-	-	-	-	-	-
335-Tussock grass - sedgeland fen - rushland - reedland wetland in impeded creeks in valleys in the upper slopes sub-region of the NSW South Western Slopes Bioregion	0.84	13	1.62	25	1.56	27	1.56	27	0.96	17

	Indicative Impacts (SSD6693-MOD1) <sup>1</sup>		Pre-construction Final Impacts <sup>2</sup>		Indicative Impacts (SSD6693-MOD2) <sup>3</sup>		Revised Pre-construction Final Impacts		Final Impacts	
	Area (ha)	Total Credits	Area (ha)	Total Credits	Area (ha)	Total Credits	Area (ha)	Total Credits	Area (ha)	Total Credits
350- Candlebark - Blakely's Red Gum - Long-leaved Box grassy woodland in the Rye Park to Yass region of the NSW South Western Slopes Bioregion and South Eastern Highland Bioregion	15.79	371	14.46	460	14.45	468	14.56	472	14.53	485
351-Brittle Gum - Broad-leaved Peppermint - Red Stringybark open forest in the north-western part (Yass to Orange) of the South Eastern Highlands Bioregion	137.64	1,762	134.74	1,661	136.00	1,648	136.01	1,648	108.79	1,321
<b>Species-credit Credits</b>										
striped legless lizard ( <i>Delma impar</i> )	-	-	-	-	-	-	-	-	-	-
southern myotis ( <i>Myotis macropus</i> )	-	-	-	-	-	-	-	-	-	-
squirrel glider ( <i>Petaurus norfolcensis</i> )	43.04	1,434	39.69	1,386	40.14	1,425	40.24	1,429	34.27	1,240
superb parrot (breeding habitat) ( <i>Polytelis swainsonii</i> )	10.16	271	11.12	309	11.12	315	11.22	319	11.05	327
golden sun moth ( <i>Synemon plana</i> )	27.56	489	25.83	440	26.94	423	26.94	423	21.5	167

<sup>1</sup> Impact Assessment Addendum (Umwelt 2021b); <sup>2</sup> Confirmation of Credit Liabilities (Umwelt 2021a); <sup>3</sup> Confirmation of Credit Liabilities (Umwelt 2022)

## 7.0 Micro-siting and Confirmation of Impacts

The final layout of the Project was refined through the detailed design and construction of the Project. It is noted that micro-siting of the wind turbines and ancillary infrastructure was permitted under Schedule 2 Condition 8 of the Development Consent and the conditions of the EPBC 2020/8837.

The Biodiversity Management Plan for the Project sets out the micro-siting requirements for the Project. Relating to biodiversity this includes:

- The micro-sited location must **remain within the Development Corridor** as approved by the Development Consent and project area as approved by EPBC 2020/8837.
- **Compliance with the micro-siting restrictions** described in Schedule 2 Condition 8 of the Development Consent, being:
  - no more than 250 m from the approved location
  - turbine numbers A06, A05, D07, D09, E04, E05, G01, and D06 are micro-sited to minimise (and if possible, avoid) impacts on high conservation value vegetation, including HBTs2
  - the revised location of a wind turbine is at least 50 m from existing HBTs; or, where the approved turbine location is already within 50 m of existing HBTs, the revised location of the turbine is not moved any closer to the existing or nearest HBTs.
- **Avoidance and minimisation of native vegetation clearing**, taking particular consideration of minimising impacts to Box Gum Woodland CEEC (BC Act and EPBC Act), Superb Parrot habitat (BC Act and EPBC Act), Striped Legless Lizard habitat (BC Act and EPBC Act), GSM habitat (BC Act and EPBC Act), Squirrel Glider habitat (BC Act) and Southern Myotis habitat (BC Act). Micro-siting must ensure that the impact of the Project does not exceed the clearing and habitat limits set out in the Development Consent or EPBC 2020/8837.
- Micro-siting during construction process will incorporate an avoidance hierarchy, where micro-siting will firstly prioritise avoidance of threatened ecological communities or habitat of threatened species in order of most to least threatened, and then secondly avoidance of non-listed native vegetation.
- Further consultation with BCD will be completed to confirm that micro-sited impacts are generally in accordance with the EIS (in accordance with Schedule 2 Condition 1 of the Development Consent) if micro-siting results in a movement of disturbance from an area of lower biodiversity (e.g., non-native vegetation, non-threatened species habitat or non-threatened ecological community) to higher biodiversity value (e.g., woodland/forest, threatened species habitat or threatened ecological community) and results in a exceedance beyond the thresholds set out in **Table 6.1** of this document.
- The **location of termite mounds** and avoiding impacts on them.
- **Will not result in any non-compliance with the conditions of consent** and ensure the Project remains generally in accordance with the EIS.

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<sup>2</sup> Previously known (and as described within the Development Consent) as 11, 12, 80, 83, 84, 85, 125 and 150. Additionally, note that turbine locations 48 and 143 are not being utilised within the final layout.

Prior to the commencement of operations (or following any upgrades of any wind turbines or ancillary infrastructure), executed plans showing the comparison to the revised pre-construction final development footprint will be prepared in accordance with Schedule 5 Condition 6 of the Development Consent and Condition 15 of the EPBC 2020/8837, will be submitted to the relevant departments and will be available on the Project’s website.

The Biodiversity Management Plan for the Project sets a post clearing process to confirm the final micro-sited impact of the Project. This process has included:

- Following civil disturbance (progressively), the final disturbance footprint of the Project was confirmed by a surveyor using sub-metre accuracy GPS equipment.
- Following the disturbance activities associated with clearance of overstorey vegetation within the transmission line easement, a suitably qualified ecologist undertook a post clearing assessment of this area to confirm the partial impact assumptions used to inform the revised pre-construction final biodiversity calculations (see **Section 3.1.4** and **Section 4.3**). This included consideration of the Structure, Composition and Function attributes of the remaining vegetation in relation to BAM.

Once all disturbance has been undertaken (using the information captured from the above), a suitably qualified ecologist was required to calculate the final biodiversity impact of the confirmed final disturbance footprint and corresponding biodiversity offset credit liabilities for the Project in accordance with the BAM under the NSW Biodiversity Offset Scheme. This report has been prepared to finalise this process.

Assessing the final development footprint (totalling 374.68 ha) for the Project identified that 1.76 ha (<0.5%) occurred beyond the extent of the previously assessed disturbance areas. This relates to 0.41 ha of disturbance associated with the wind farm outside the Development Corridor as approved by the Development Consent (SSD6693-MOD2 and EPBC 2020/8837) and an additional 1.35 ha of disturbance associated with the public road upgrades within the project area as approved by EPBC 2020/8837 that were not previously assessed as an indicative impact as part of the public road upgrades.

While all micro-siting for the Project is required by the Biodiversity Management Plan to remain within this Development Corridor, these impacts have not compromised any of the clearance or impact thresholds identified for the Project relating to PCTs, species credits species or threatened ecological communities. **Table 7.1** provides a total summary of the extent of impacts of the final development footprint occurring beyond the Development Corridor, with **Table 7.2** providing further detail on the impacts with respect to the additional public road upgrades and the works within the wind farm that occurred outside the defined Development Corridor.

**Table 7.1 Extent of impacts to PCTs and Vegetation Zones outside of the Development Corridor**

PCT Number	Vegetation Zone	Condition	Area (ha)
289	1	Moderate to Good	0.15
350	3	Moderate to Good	0.10
350	4	DNG	0.03
351	5	Moderate to Good	0.09
351	6	DNG	0.05
351	7	Moderate to Good – Acacia Shrubland	0.01
351	8	Moderate to Good – Sifton Bush Shrubland	0.04
351	10	Non-native Vegetation	1.20
Nil	Nil	Access Tracks/Roads	0.10
<b>Total</b>			<b>1.76</b>

**Table 7.2 Comparison of the additional disturbance areas – Ecosystem and Species-credit Species**

	Areas of Additional Public Road Upgrade (ha)	Area of Disturbance outside Development Corridor – wind farm (ha)	Total (ha)	Percentage of Total Finalised Impact Area (%) <sup>1</sup>
<b>Non-listed</b>				
PCT 289 (Vegetation Zone 1)	0.15	-	0.15	0.04
PCT 335 (Vegetation Zone 2)	-	-	-	-
PCT 351 – Native (Vegetation Zones 5 - 9)	0.17	0.01	0.18	0.05
PCT 351 – Non-native (Vegetation Zone 10)	0.99	0.21	1.2	0.32
<b>BC Act and EPBC Act Listed</b>				
Striped Legless Lizard	-	0.01	0.01	<0.01
Superb Parrot	0.10	-	0.10	0.03
Golden Sun Moth	-	0.10	0.10	0.03
<b>BC Act Listed</b>				
Box Gum Woodland CEEC (BC Act) <sup>2</sup>	0.10	0.03	0.13	0.03
Squirrel Glider	0.25	0.08	0.33	0.09
Southern Myotis	-	-	-	-
<b>EPBC Act Listed</b>				
Box Gum Woodland CEEC (EPBC Act) <sup>3</sup>	0.06	0.03	0.09	0.02

<sup>1</sup> Refer to **Table 4.8** for relevant totals of the Finalised Impact Area

<sup>2</sup> White Box Yellow Box Blakely's Red Gum Grassy Woodland and Derived Native Grassland CEEC (BC Act)

<sup>3</sup> White box - yellow box - Blakely's red gum grassy woodlands and derived native grasslands CEEC (EPBC Act)

For the avoidance of doubt, the additional impacts as described in **Table 7.1** and **Table 7.2**, have been considered as part of the final project disturbance and the impacts to these areas are included in the final credit liability for the Project (refer to **Section 6.0**). With respect to the disturbance outside the wind farm Development Corridor, Umwelt considers that these impacts are insignificant when compared to the total disturbance of the Project and have a negligible impact to the relevant environmental values of the additional areas compared to the reduction of disturbance achieved by RPRE as part of the final project layout. The impacts to 1.76 hectares that occur outside the wind farm Development Corridor do not compromise any of the biodiversity impact thresholds approved for the Project. Further, impacts to all biodiversity entities impacted by the Project have been reduced when compared to the MOD2 Confirmation of Credit Liabilities (Umwelt 2022), that is PCTs, vegetation zones, threatened ecological communities and species-credit species.

The final biodiversity calculations will be used to update the Offset Strategy in accordance with Condition 15 of the EPBC 2020/8837 and as evidence when retiring credits pursuant to Schedule 3 Condition 21 of the Development Consent.

## 8.0 References

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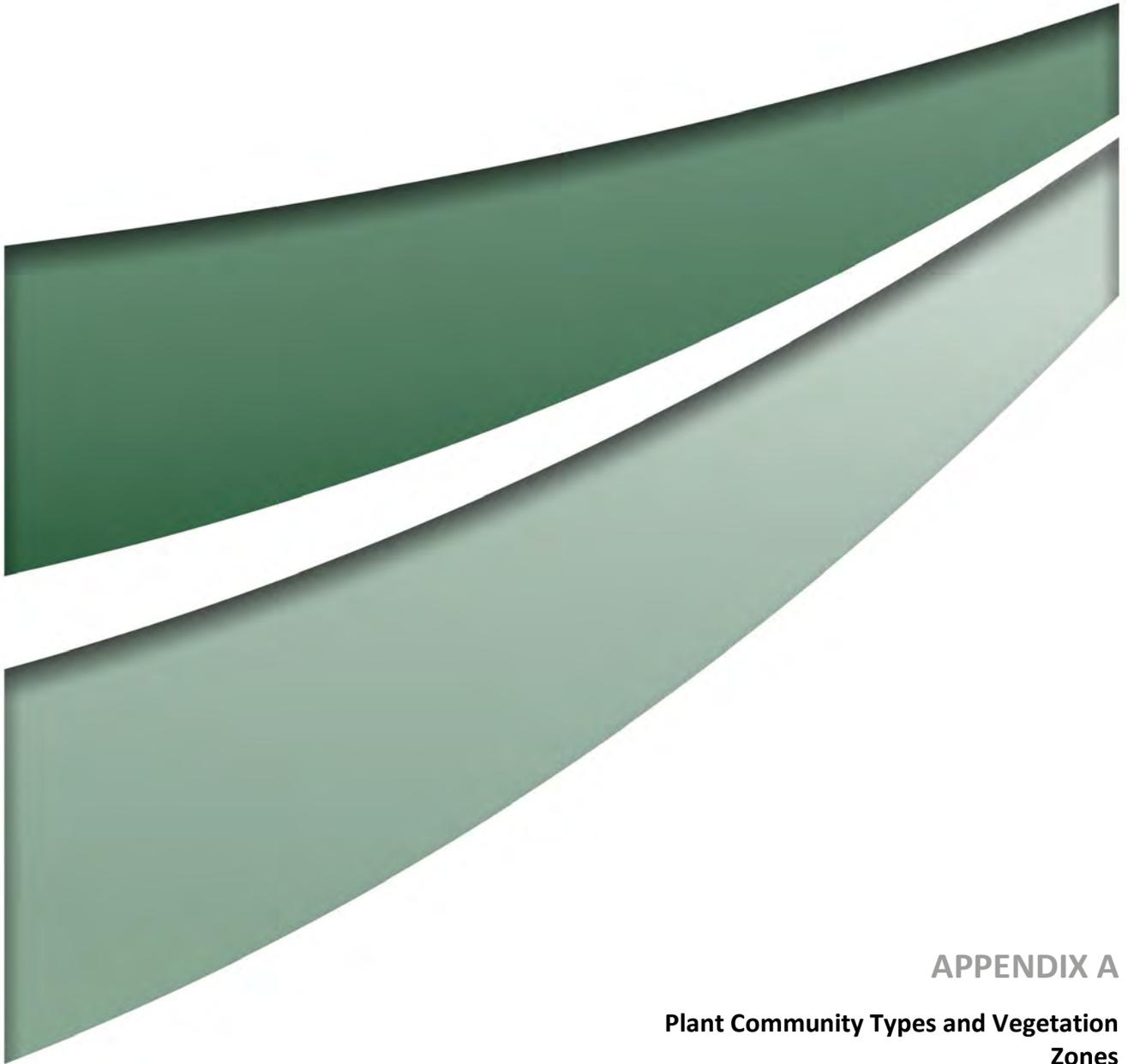
Umwelt 2020b. Rye Park Wind Farm – Biodiversity Attachment, Environment Protection and Biodiversity Conservation Act 1999 Referral (November 2020)

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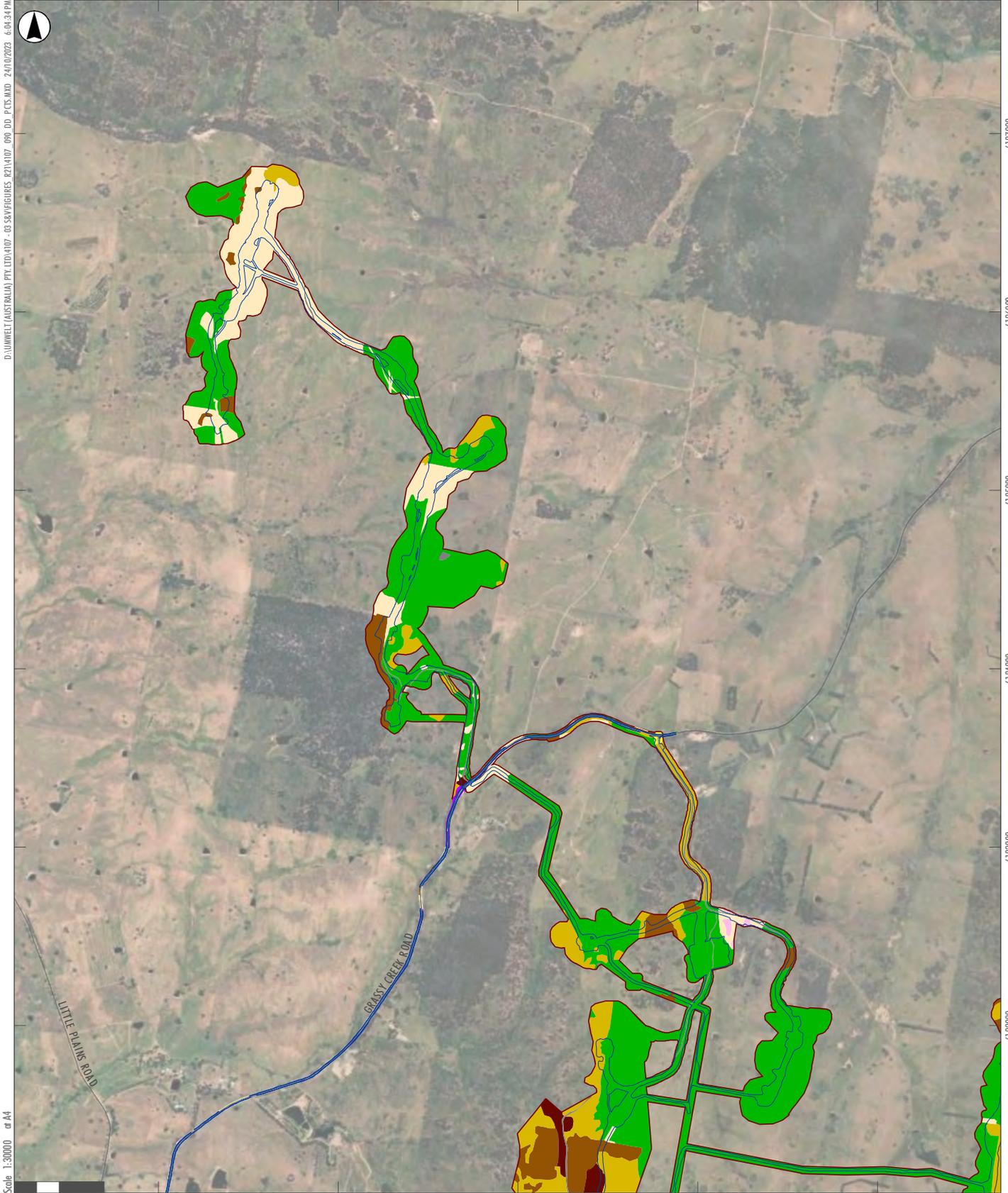
Yass Valley Council (2017). Plan of Management for Yass Gorge 2017-2027. September 2017.



## APPENDIX A

### Plant Community Types and Vegetation Zones

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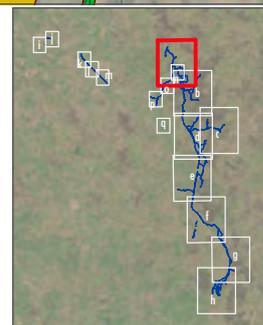
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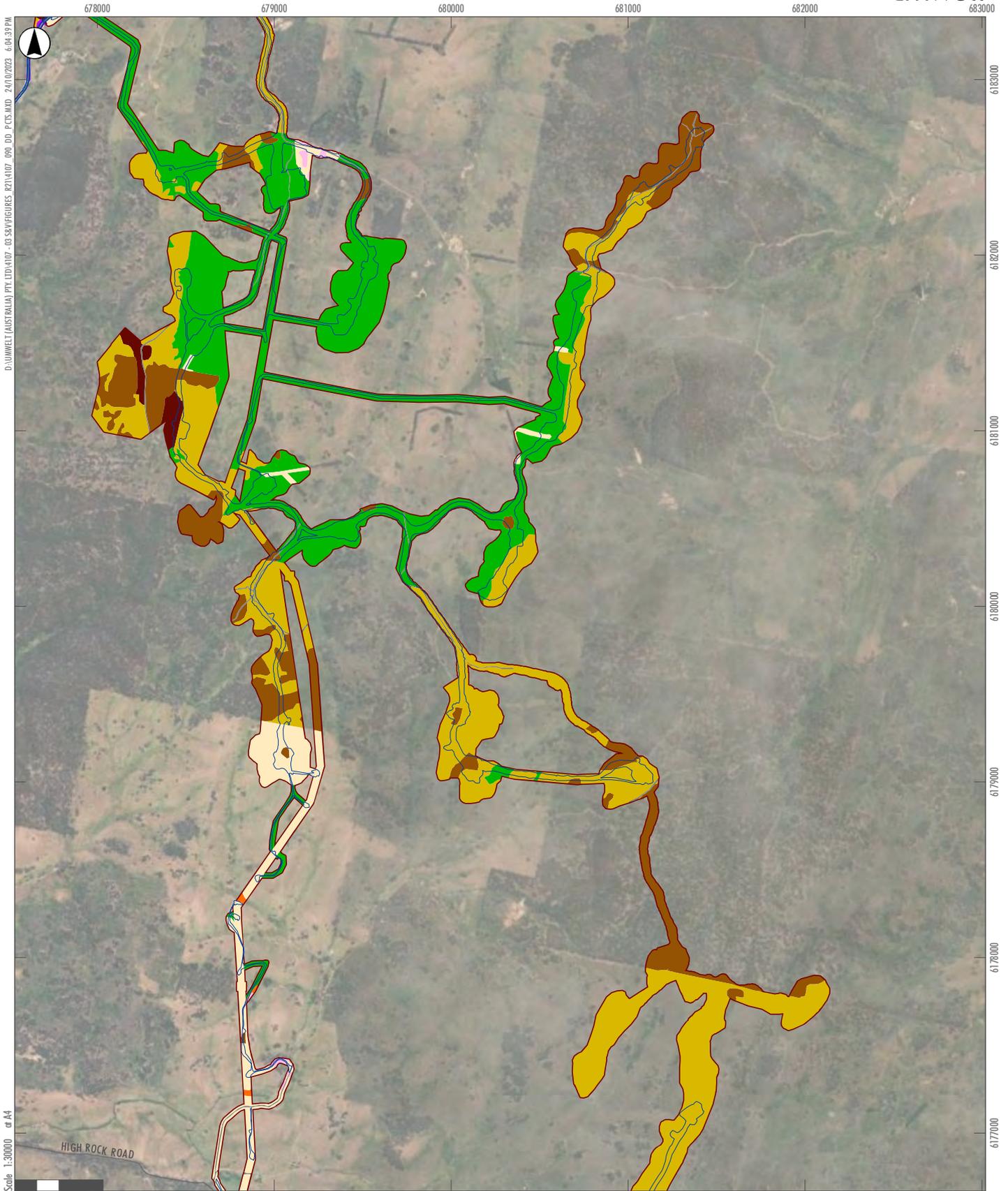
6187000 6186000 6185000 6184000 6183000 6182000

GDA 1994 MGA Zone 55

- Legend**
- Final Development Footprint
  - Rye Park Wind Farm Development Corridor
  - Road
  - Zone 1 - 289 - Moderate to Good
  - Zone 3 - 350 - Moderate to Good
  - Zone 5 - 351 - Moderate to Good
  - Zone 6 - 351 - Moderate to Good - DNG
  - Zone 7 - 351 - Moderate to Good - Acacia Shrubland
  - Zone 8 - 351 - Moderate to Good - Sifton Bush Shrubland
  - Zone 9 - 351 - Moderate to Good - Argyle Apple Forest
  - Zone 10 - Non-native Vegetation
  - Access Tracks/Roads
- PCT, Condition in the Rye Park Wind Farm**



**APPENDIX A.a**  
**Plant Community Types and Vegetation Zones in the Final Development Footprint**



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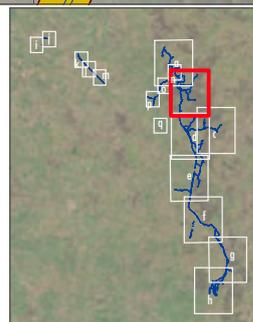
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**Legend**

- Final Development Footprint
- Rye Park Wind Farm Development Corridor
- Road
- Access Tracks/Roads

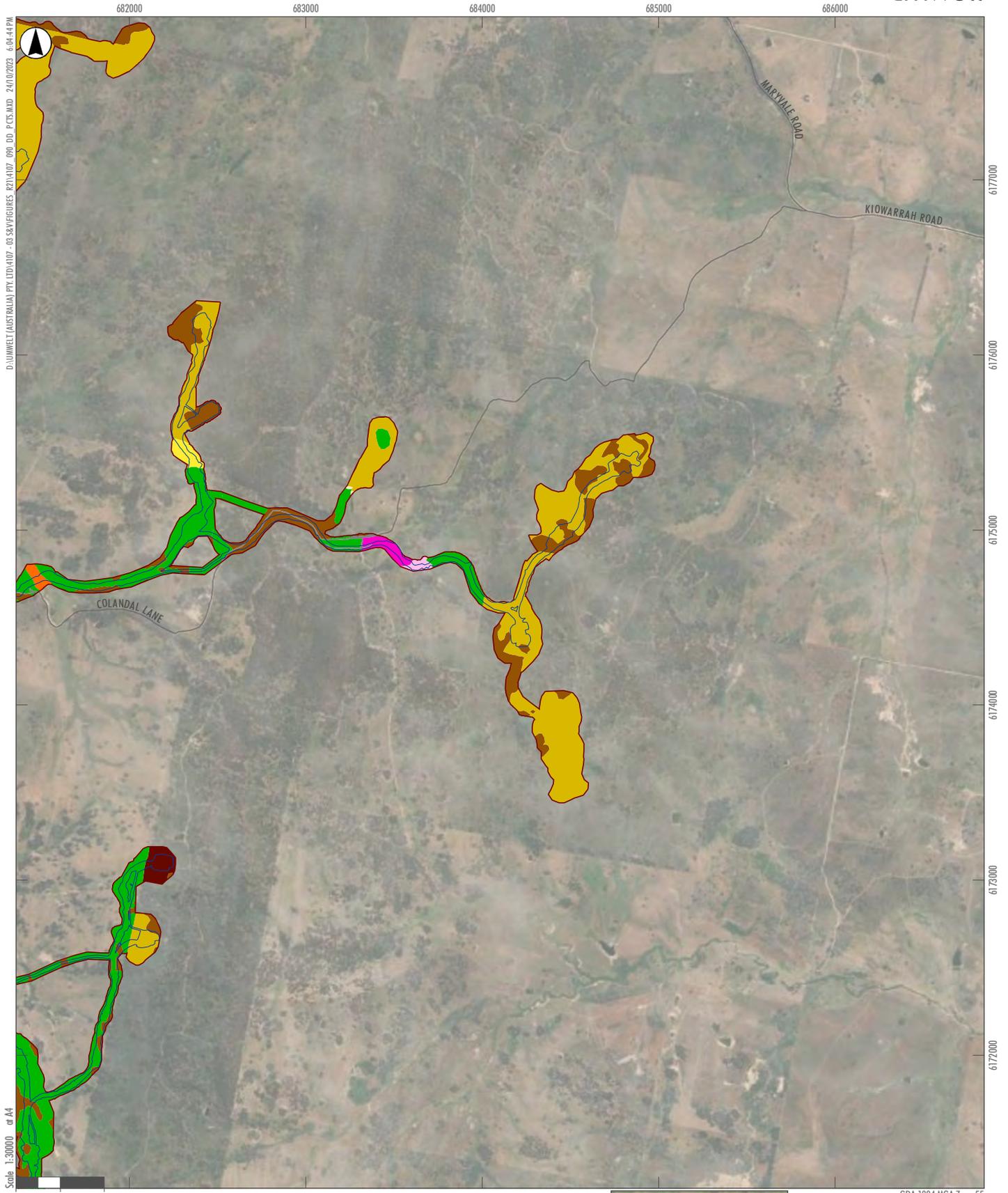
**PCT, Condition in the Rye Park Wind Farm**

- Zone 1 -289 - Moderate to Good
- Zone 2 -335 - Moderate to Good
- Zone 3 -350 - Moderate to Good
- Zone 5 -351 - Moderate to Good
- Zone 6 -351 - Moderate to Good - DNG
- Zone 7 -351 - Moderate to Good - Acacia Shrubland
- Zone 8 -351 - Moderate to Good - Sifton Bush Shrubland
- Zone 10 -Non-native Vegetation



**APPENDIX A.b**

**Plant Community Types and Vegetation Zones in the Final Development Footprint**

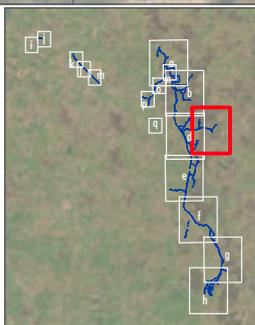


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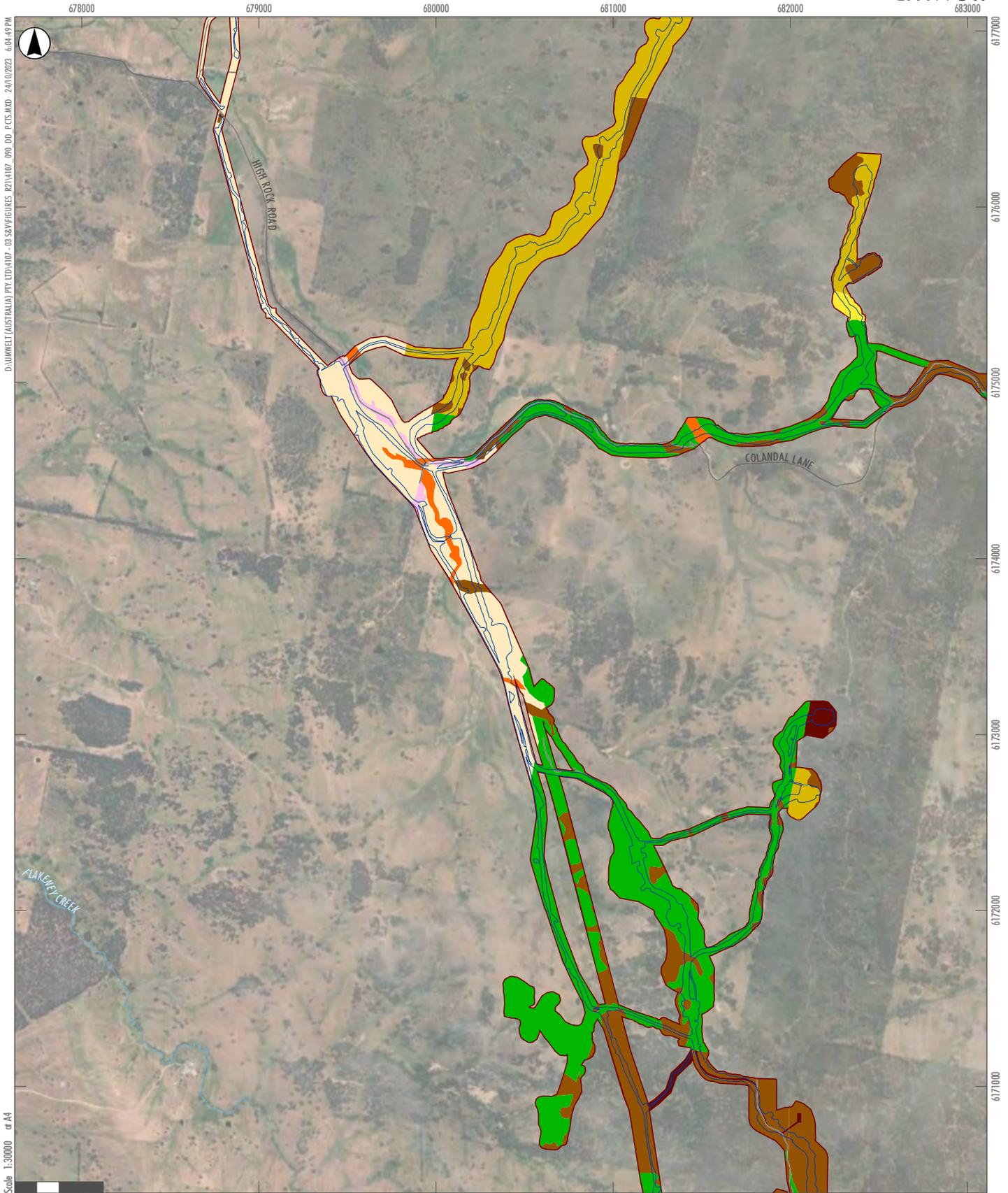
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GDA 1994 MGA Zone 55

- Legend**
- Final Development Footprint
  - Rye Park Wind Farm Development Corridor
  - Road
- PCT, Condition in the Rye Park Wind Farm**
- Zone 2 -335 - Moderate to Good
  - Zone 3 -350 - Moderate to Good
  - Zone 4 -350 - Moderate to Good - DNG
  - Zone 5 -351 - Moderate to Good
  - Zone 6 -351 - Moderate to Good - DNG
  - Zone 7 -351 - Moderate to Good - Acacia Shrubland
  - Zone 8 -351 - Moderate to Good - Sifton Bush Shrubland
  - Zone 9 -351 - Moderate to Good - Argyle Apple Forest
  - Zone 10 - Non-native Vegetation
  - Access Tracks/Roads



**APPENDIX A.c**  
**Plant Community Types and Vegetation Zones in the Final Development Footprint**



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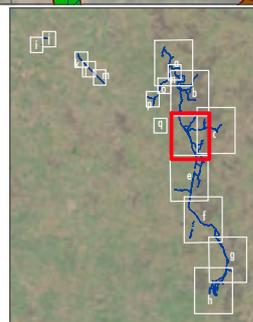
GDA 1994 MGA Zone 55

**Legend**

- Final Development Footprint
- Rye Park Wind Farm Development Corridor
- Watercourses
- Road
- Access Tracks/Roads
- Zone 7 -351 - Moderate to Good - Acacia Shrubland
- Zone 8 -351 - Moderate to Good - Sifton Bush Shrubland
- Zone 9 -351 - Moderate to Good - Argyle Apple Forest
- Zone 10 -Non-native Vegetation

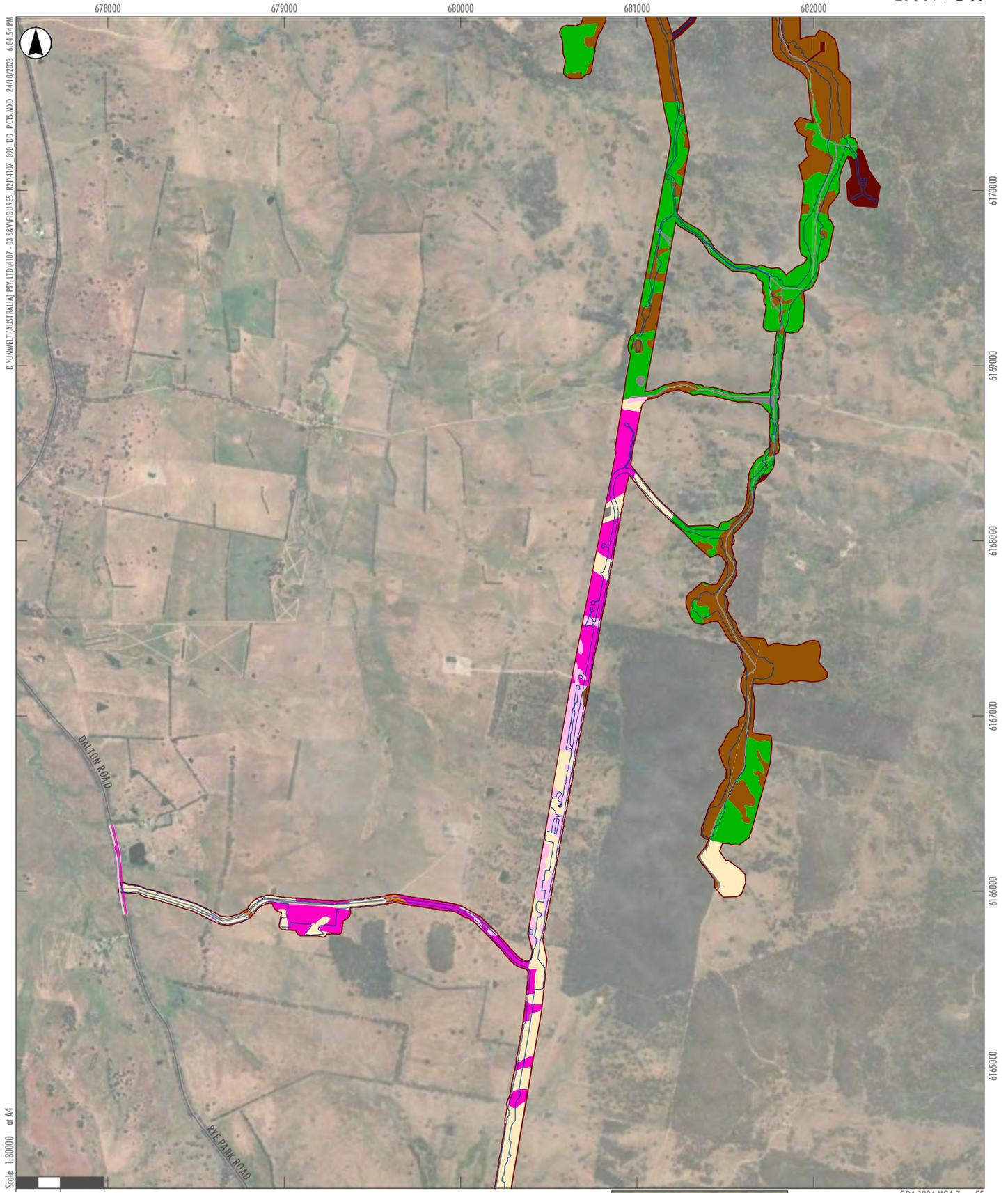
**PCT, Condition in the Rye Park Wind Farm**

- Zone 2 -335 - Moderate to Good
- Zone 3 -350 - Moderate to Good
- Zone 5 -351 - Moderate to Good
- Zone 6 -351 - Moderate to Good - DNG



**APPENDIX A.d**

**Plant Community Types and Vegetation Zones in the Final Development Footprint**



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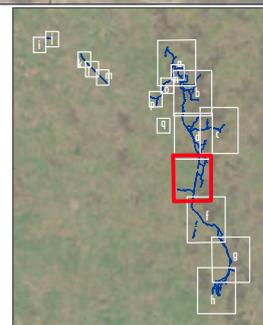
GDA 1994 MGA Zone 55

**Legend**

- Final Development Footprint
- Rye Park Wind Farm Development Corridor
- Watercourses
- Road
- Zone 6 -351 - Moderate to Good - DNG
- Zone 7 -351 - Moderate to Good - Acacia Shrubland
- Zone 10 -Non-native Vegetation
- Access Tracks/Roads

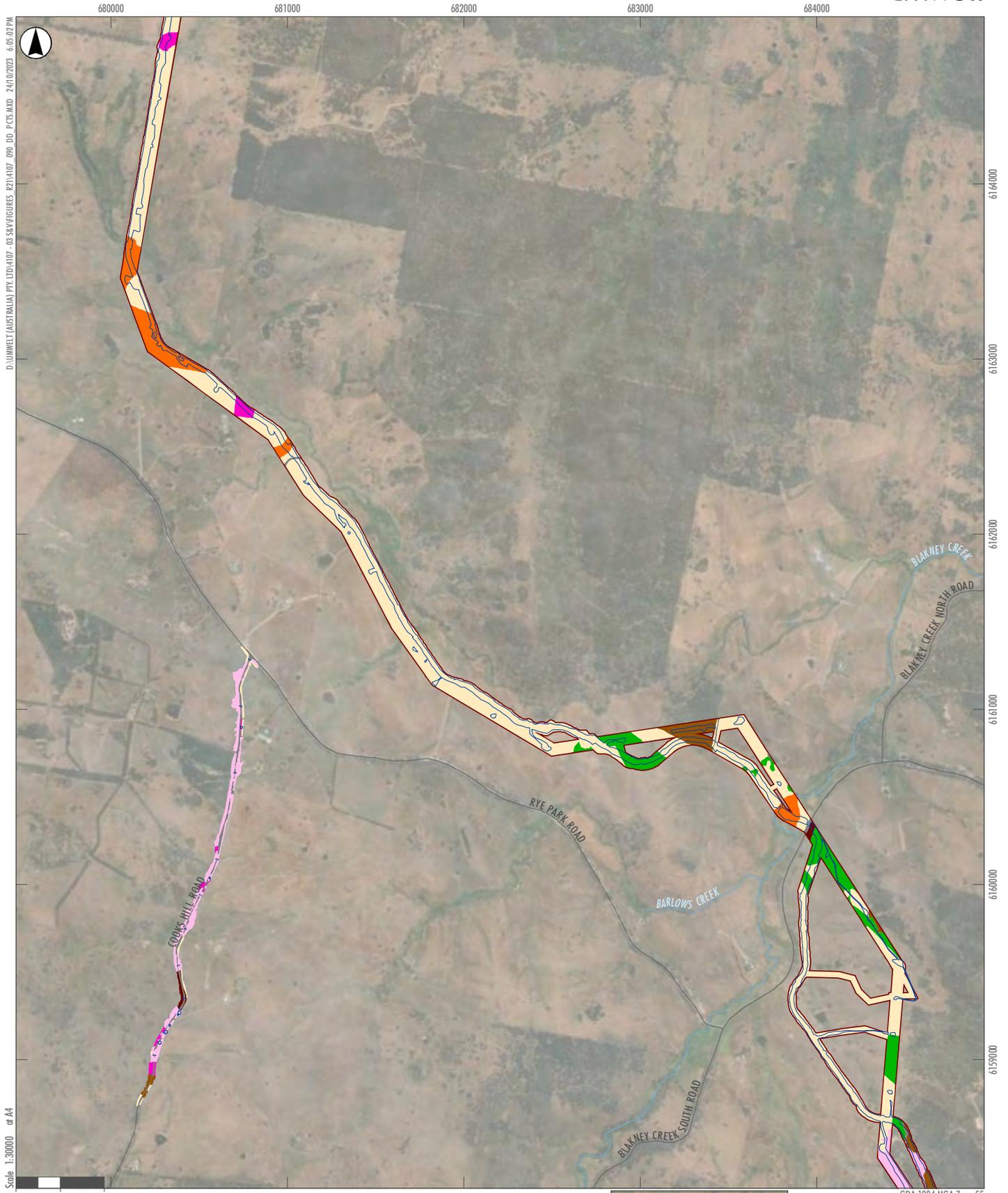
**PCT, Condition in the Rye Park Wind Farm**

- Zone 2 -335 - Moderate to Good
- Zone 3 -350 - Moderate to Good
- Zone 4 -350 - Moderate to Good - DNG
- Zone 5 -351 - Moderate to Good



**APPENDIX A.e**

**Plant Community Types and Vegetation Zones in the Final Development Footprint**



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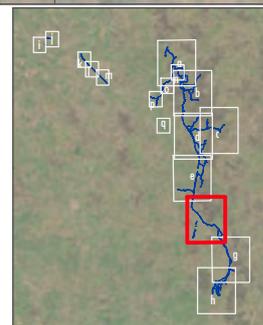
GDA 1994 MGA Zone 55

**Legend**

- Final Development Footprint
- Rye Park Wind Farm Development Corridor
- Watercourses
- Road
- Zone 6 -351 - Moderate to Good - DNG
- Zone 7 -351 - Moderate to Good - Acacia Shrubland
- Zone 10 -Non-native Vegetation
- Access Tracks/Roads

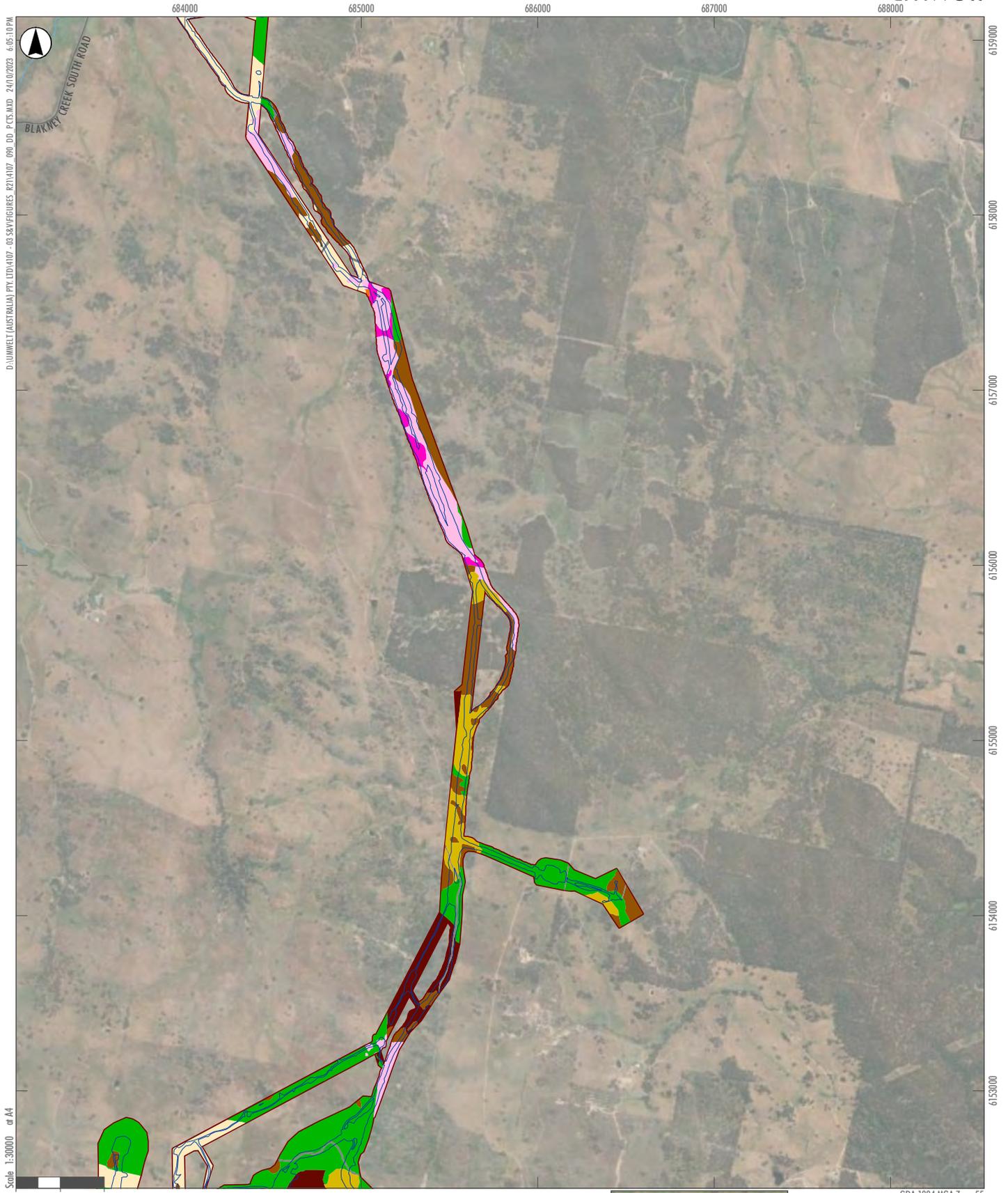
**PCT, Condition in the Rye Park Wind Farm**

- Zone 2 -335 - Moderate to Good
- Zone 3 -350 - Moderate to Good
- Zone 4 -350 - Moderate to Good - DNG
- Zone 5 -351 - Moderate to Good



**APPENDIX A.f**

**Plant Community Types and Vegetation Zones in the Final Development Footprint**



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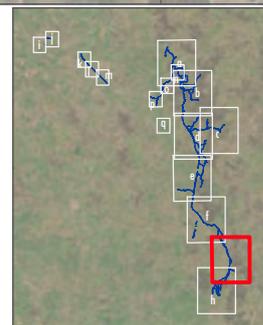
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GDA 1994 MGA Zone 55

**Legend**

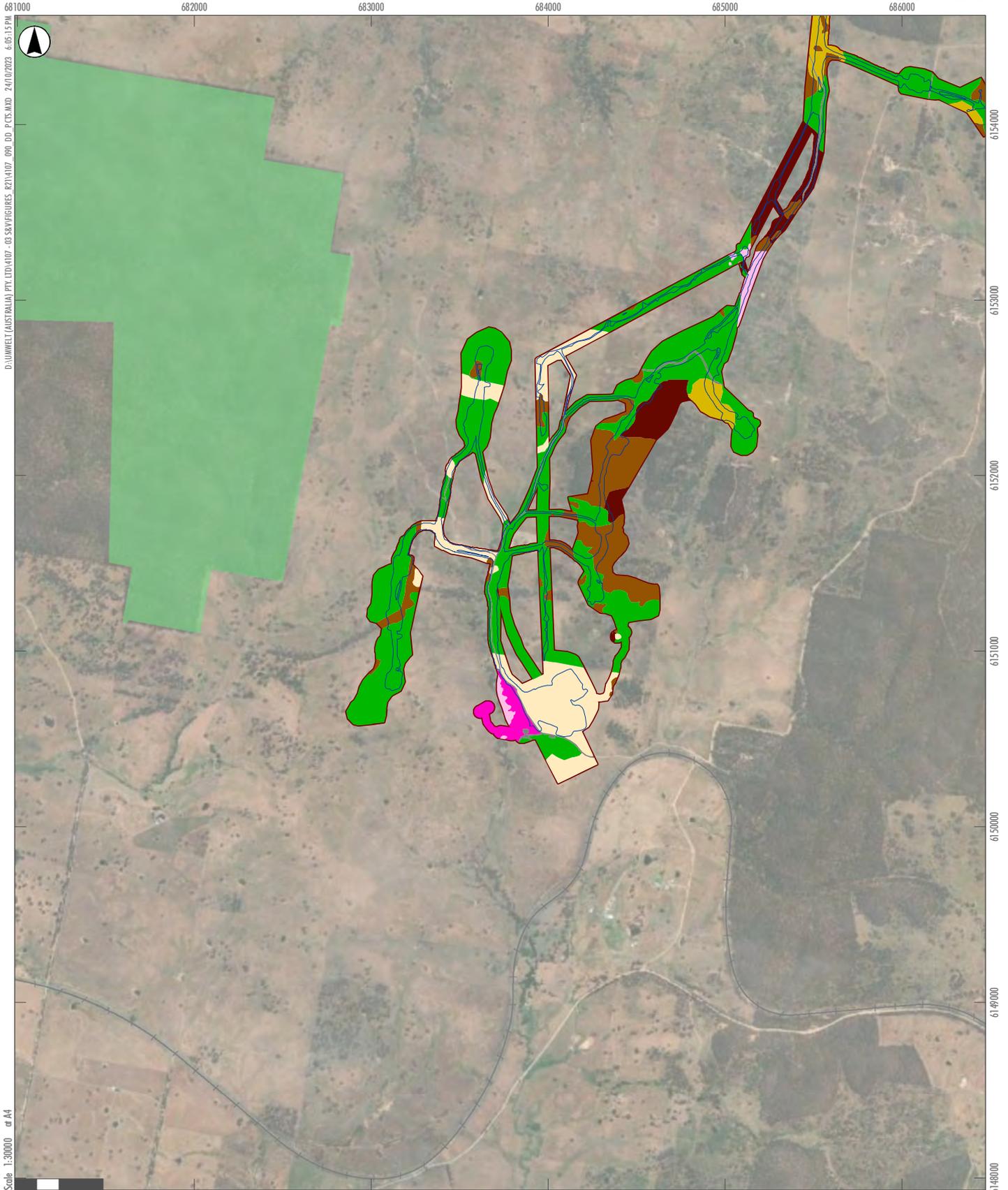
- Final Development Footprint
- Rye Park Wind Farm Development Corridor
- Watercourses
- Road
- Zone 2 - 335 - Moderate to Good
- Zone 3 - 350 - Moderate to Good
- Zone 4 - 350 - Moderate to Good - DNG
- Zone 5 - 351 - Moderate to Good
- Zone 6 - 351 - Moderate to Good - DNG
- Zone 7 - 351 - Moderate to Good - Acacia Shrubland
- Zone 8 - 351 - Moderate to Good - Sifton Bush Shrubland
- Zone 10 - Non-native Vegetation
- Access Tracks/Roads

**PCT, Condition in the Rye Park Wind Farm**



**APPENDIX A.g**

**Plant Community Types and Vegetation Zones in the Final Development Footprint**



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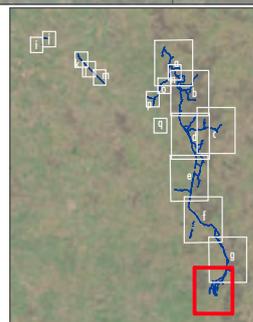
GDA 1994 MGA Zone 55

**Legend**

- Final Development Footprint
- Rye Park Wind Farm Development Corridor
- Railway
- NPWS Reserve
- Zone 7 -351 - Moderate to Good - Acacia Shrubland
- Zone 8 -351 - Moderate to Good - Sifton Bush Shrubland
- Zone 10 -Non-native Vegetation
- Access Tracks/Roads

**PCT, Condition in the Rye Park Wind Farm**

- Zone 3 -350 - Moderate to Good
- Zone 4 -350 - Moderate to Good - DNG
- Zone 5 -351 - Moderate to Good
- Zone 6 -351 - Moderate to Good - DNG



**APPENDIX A.h**

**Plant Community Types and Vegetation Zones in the Final Development Footprint**

658000

BRIAL STREET

6186000

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6187000

6186000

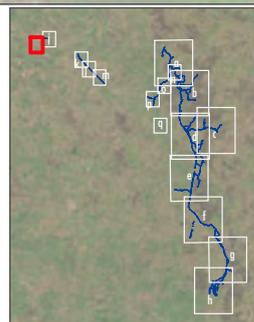
GDA 1994 MGA Zone 55

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0 250 500 Meters

**Legend**

- Final Development Footprint
- Railway
- Road
- PCT, Condition in the Rye Park Wind Farm**
- Zone 3 - 350 - Moderate to Good
- Zone 4 - 350 - Moderate to Good - DNG
- Zone 10 - Non-native Vegetation
- Access Tracks/Roads



**APPENDIX A.i**

**Plant Community Types and Vegetation Zones in the Final Development Footprint**

660000

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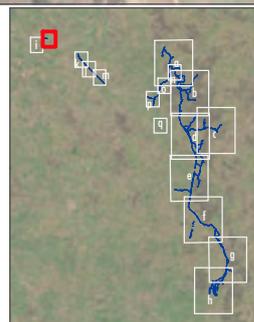
GDA 1994 MGA Zone 55

**Legend**

- Final Development Footprint
- Watercourses
- Road

**PCT, Condition in the Rye Park Wind Farm**

- Zone 3 - 350 - Moderate to Good
- Zone 10 - Non-native Vegetation
- Access Tracks/Roads



**APPENDIX A.j**

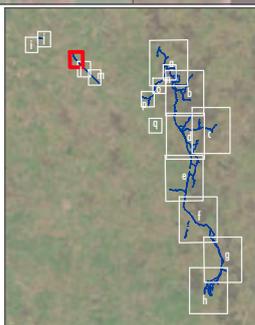
**Plant Community Types and Vegetation Zones in the Final Development Footprint**



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GDA 1994 MGA Zone 55

- Legend**
- Final Development Footprint
  - Watercourses
  - Road
- PCT, Condition in the Rye Park Wind Farm**
- Zone 3 -350 - Moderate to Good
  - Zone 4 -350 - Moderate to Good - DNG
  - Zone 5 -351 - Moderate to Good
  - Zone 10 -Non-native Vegetation
  - Access Tracks/Roads



**APPENDIX A.k**  
**Plant Community Types and**  
**Vegetation Zones in the**  
**Final Development**  
**Footprint**

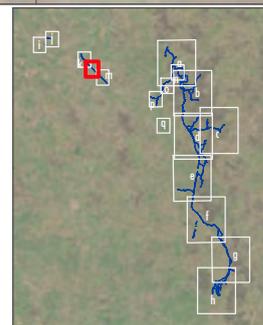


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0 250 500 Meters

GDA 1994 MGA Zone 55

- Legend**
- Final Development Footprint
  - Watercourses
  - Road
- PCT, Condition in the Rye Park Wind Farm**
- Zone 4 - 350 - Moderate to Good - DNG
  - Zone 10 - Non-native Vegetation
  - Access Tracks/Roads



## APPENDIX A.I

### Plant Community Types and Vegetation Zones in the Final Development Footprint

667000

668000

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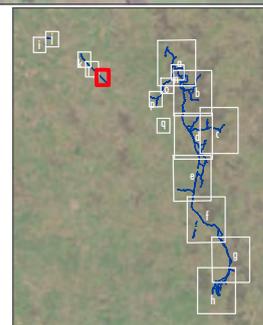


618000

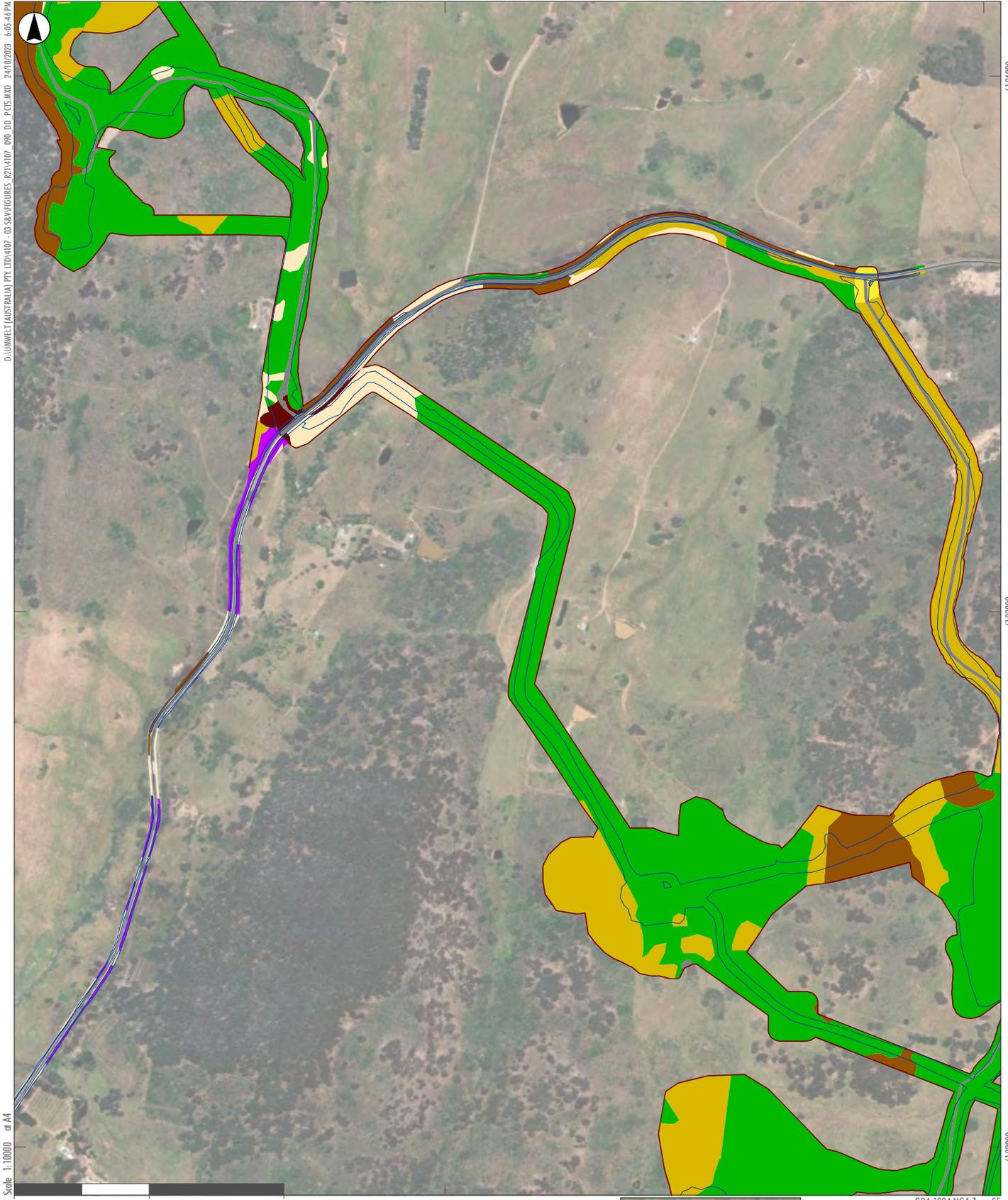
619200

GDA 1994 MGA Zone 55

- Legend**
- Final Development Footprint
  - Watercourses
  - Road
- PCT, Condition in the Rye Park Wind Farm**
- Zone 3 - 350 - Moderate to Good
  - Zone 10 - Non-native Vegetation
  - Access Tracks/Roads



**APPENDIX A.m**  
**Plant Community Types and**  
**Vegetation Zones in the**  
**Final Development**  
**Footprint**



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6183000

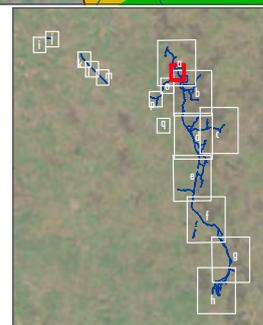
6182000

Scale 1:10000 or A4

GDA 1994 MGA Zone 55

- Legend**
- Final Development Footprint
  - Rye Park Wind Farm Development Corridor
  - Road
  - Zone 9 -351 - Moderate to Good - Argyle Apple Forest
  - Zone 10 - Non-native Vegetation
  - Access Tracks/Roads

- PCT, Condition in the Rye Park Wind Farm**
- Zone 1 -289 - Moderate to Good
  - Zone 5 -351 - Moderate to Good
  - Zone 6 -351 - Moderate to Good - DNG
  - Zone 7 -351 - Moderate to Good - Acacia Shrubland
  - Zone 8 -351 - Moderate to Good - Sifton Bush Shrubland



**APPENDIX A.n**  
**Plant Community Types and**  
**Vegetation Zones in the**  
**Final Development**  
**Footprint**



D:\UMWELT (AUSTRALIA) PTY. LTD\4107 - 03 SBV\FIGURES R21\4107\_090\_DD\_P.CS.MXD 24/10/2023 6:05:50 PM

Scale 1:10000 at A4

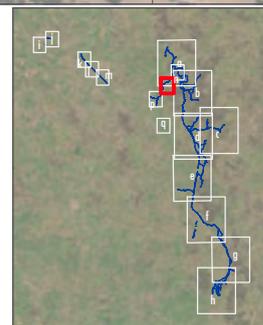
GDA 1994 MGA Zone 55

**Legend**

- Final Development Footprint
- Road

**PCT, Condition in the Rye Park Wind Farm**

- Zone 1 -289 - Moderate to Good
- Zone 3 -350 - Moderate to Good
- Zone 8 -351 - Moderate to Good - Sifton Bush Shrubland
- Zone 10 -Non-native Vegetation
- Access Tracks/Roads



**APPENDIX A.o**

**Plant Community Types and Vegetation Zones in the Final Development Footprint**

674000

675000

618000

617900



Scale 1:10000 at A4

0 250 500 Meters

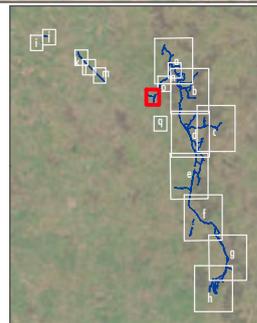
GDA 1994 MGA Zone 55

**Legend**

- Final Development Footprint
- Watercourses
- Road

**PCT, Condition in the Rye Park Wind Farm**

- Zone 3 - 350 - Moderate to Good
- Zone 4 - 350 - Moderate to Good - DNG
- Zone 10 - Non-native Vegetation
- Access Tracks/Roads



**APPENDIX A.p**

**Plant Community Types and Vegetation Zones in the Final Development Footprint**

676000

D:\UMWELT (AUSTRALIA) PTY. LTD\4107 - 03 SBV FIGURES R21\4107\_090\_DD\_P.CS.MXD 24/10/2023 6:06:00 PM



Scale 1:10000 at A4

0 250 500 Meters

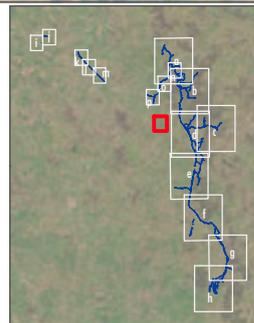
GDA 1994 MGA Zone 55

**Legend**

- Watercourses
- Road

**PCT, Condition in the Rye Park Wind Farm**

- Zone 3 -350 - Moderate to Good
- Zone 10 - Non-native Vegetation
- Access Tracks/Roads



**APPENDIX A.q**

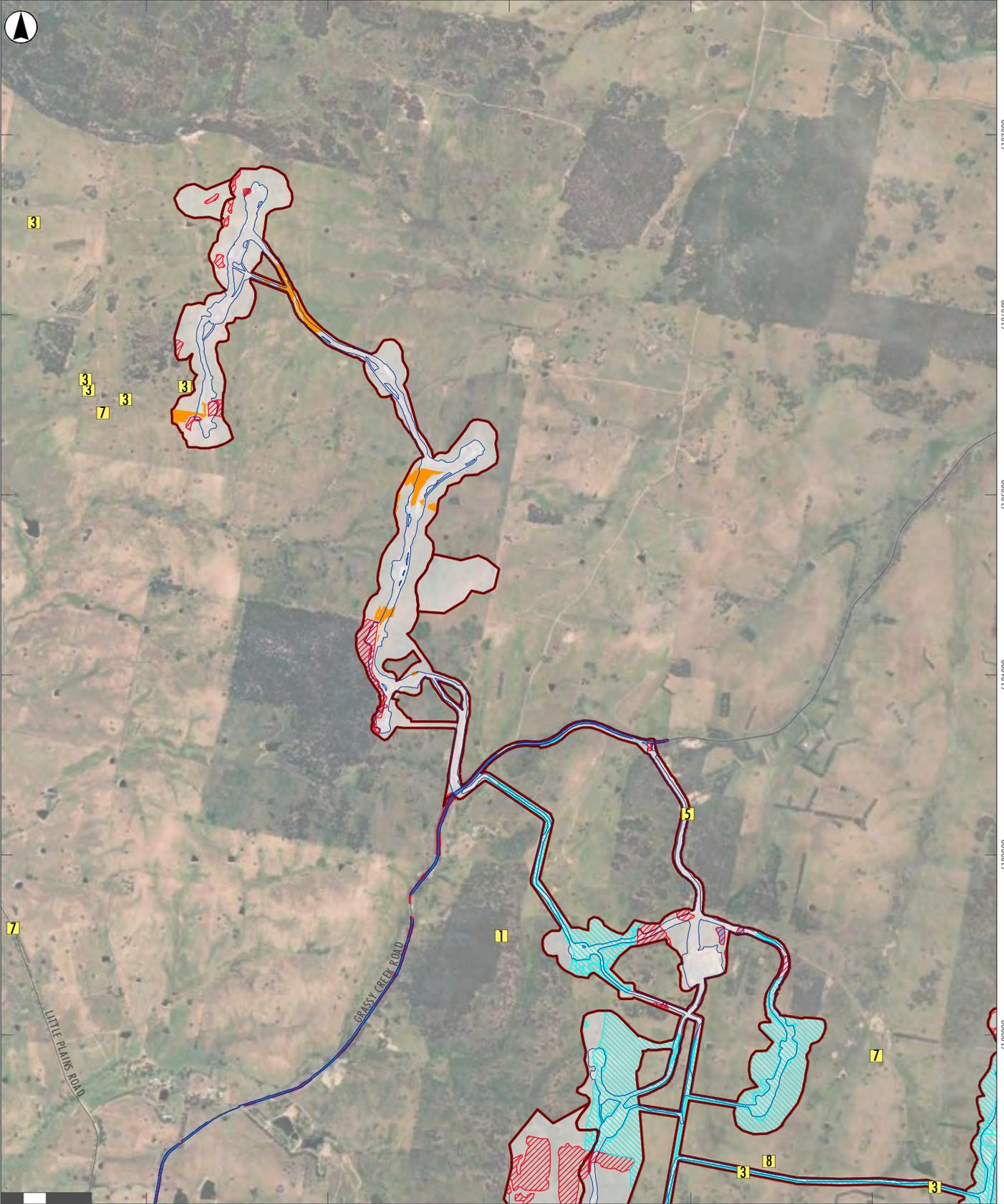
**Plant Community Types and Vegetation Zones in the Final Development Footprint**



**APPENDIX B**  
**Species Polygons**

676000 677000 678000 679000 680000

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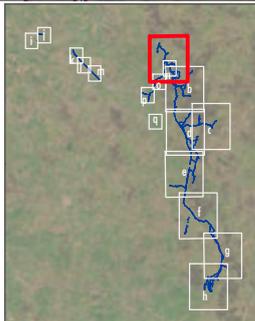


6187000 6185000 6183000 6181000 6179000 6182000

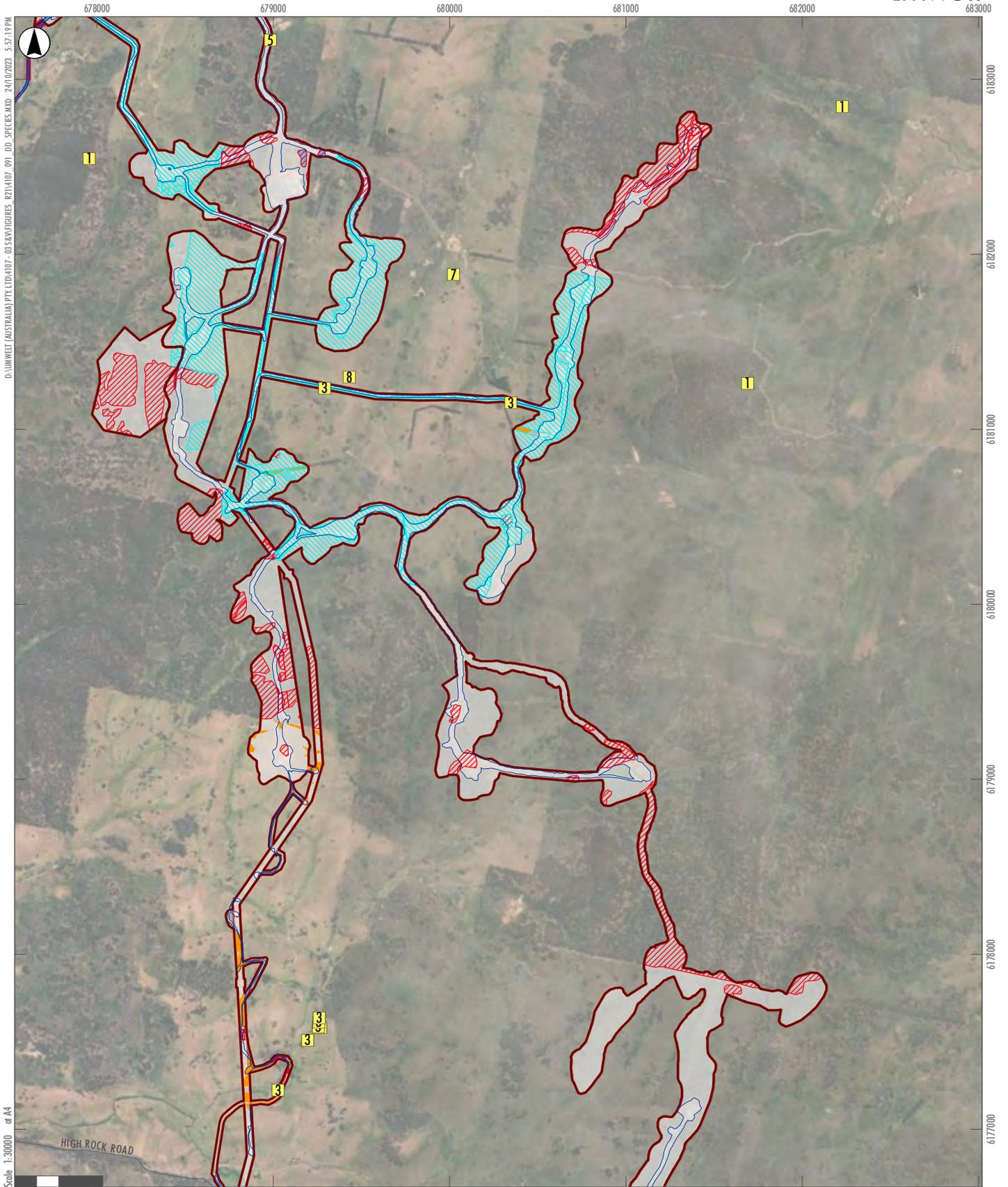
Scale 1:30000 at A4

GDA 1994 MGA Zone 55

- Legend**
- Final Development Footprint
  - Rye Park Wind Farm Development Corridor
  - Road
- Threatened Species Habitat**
- Striped Legless Lizard Habitat
  - Squirrel Glider Habitat
  - Golden Sun Moth Habitat
  - Superb Parrot - Breeding Habitat
- Threatened Species Records**
- 1 Glider Sp.
  - 3 Golden Sun Moth
  - 5 Little Eagle
  - 7 Superb Parrot
  - 8 Striped Legless Lizard

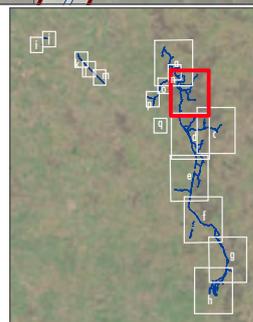


**APPENDIX B.a**  
**Threatened Species Habitat & Records in the Final Development Footprint**



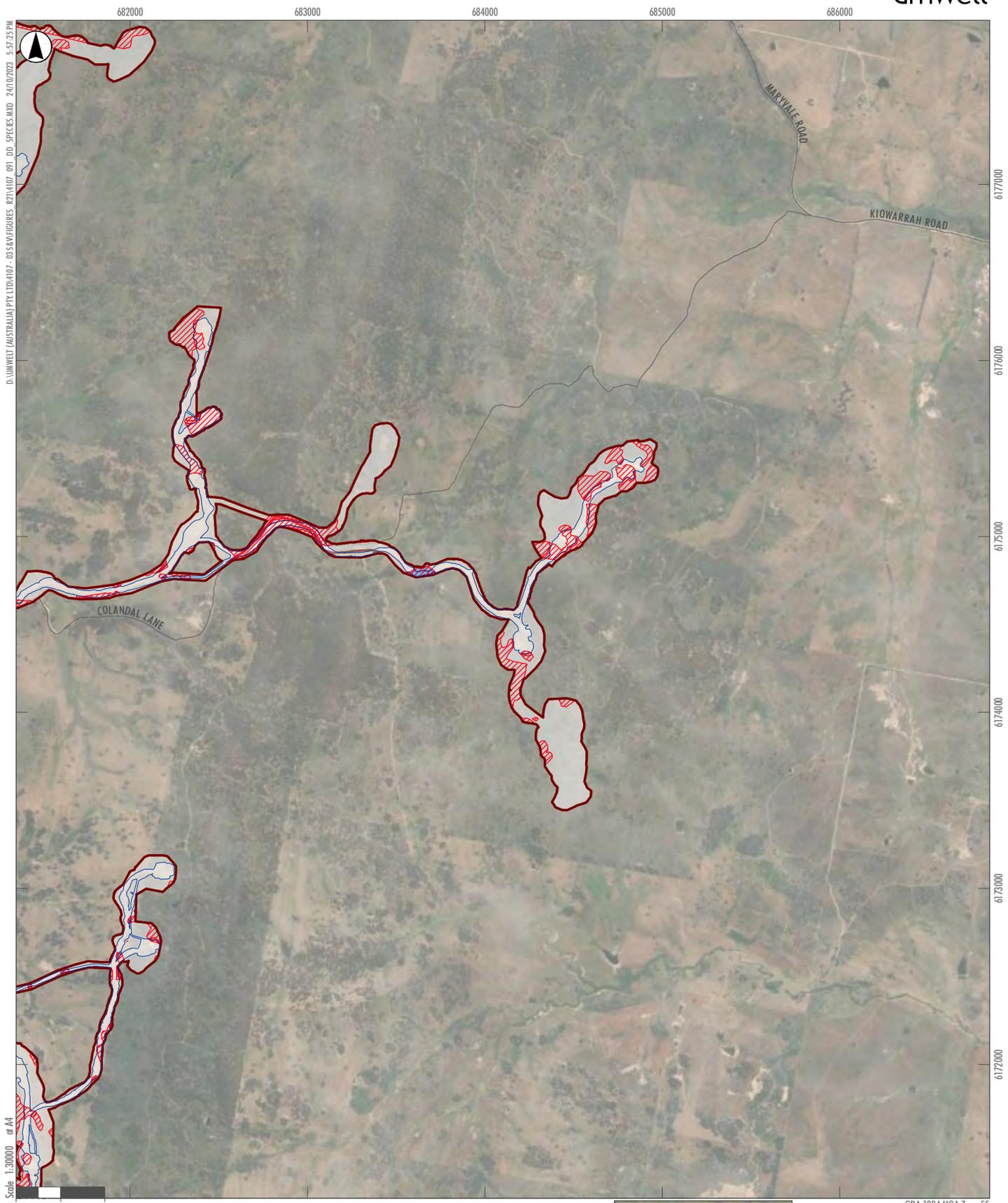
**Legend**

- |   |                                   |
|---|-----------------------------------|
| Final Development Footprint             | <b>Threatened Species Habitat</b> |
| Rye Park Wind Farm Development Corridor | Striped Legless Lizard Habitat    |
| Road                                    | Squirrel Glider Habitat           |
| <b>Threatened Species Records</b>       | Superb Parrot - Breeding Habitat  |
| 1 Glider Sp.                            |                                   |
| 3 Golden Sun Moth                       |                                   |
| 5 Little Eagle                          |                                   |
| 7 Superb Parrot                         |                                   |
| 8 Striped Legless Lizard                |                                   |



**APPENDIX B.b**

**Threatened Species Habitat & Records in the Final Development Footprint**

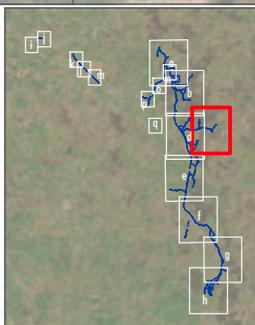


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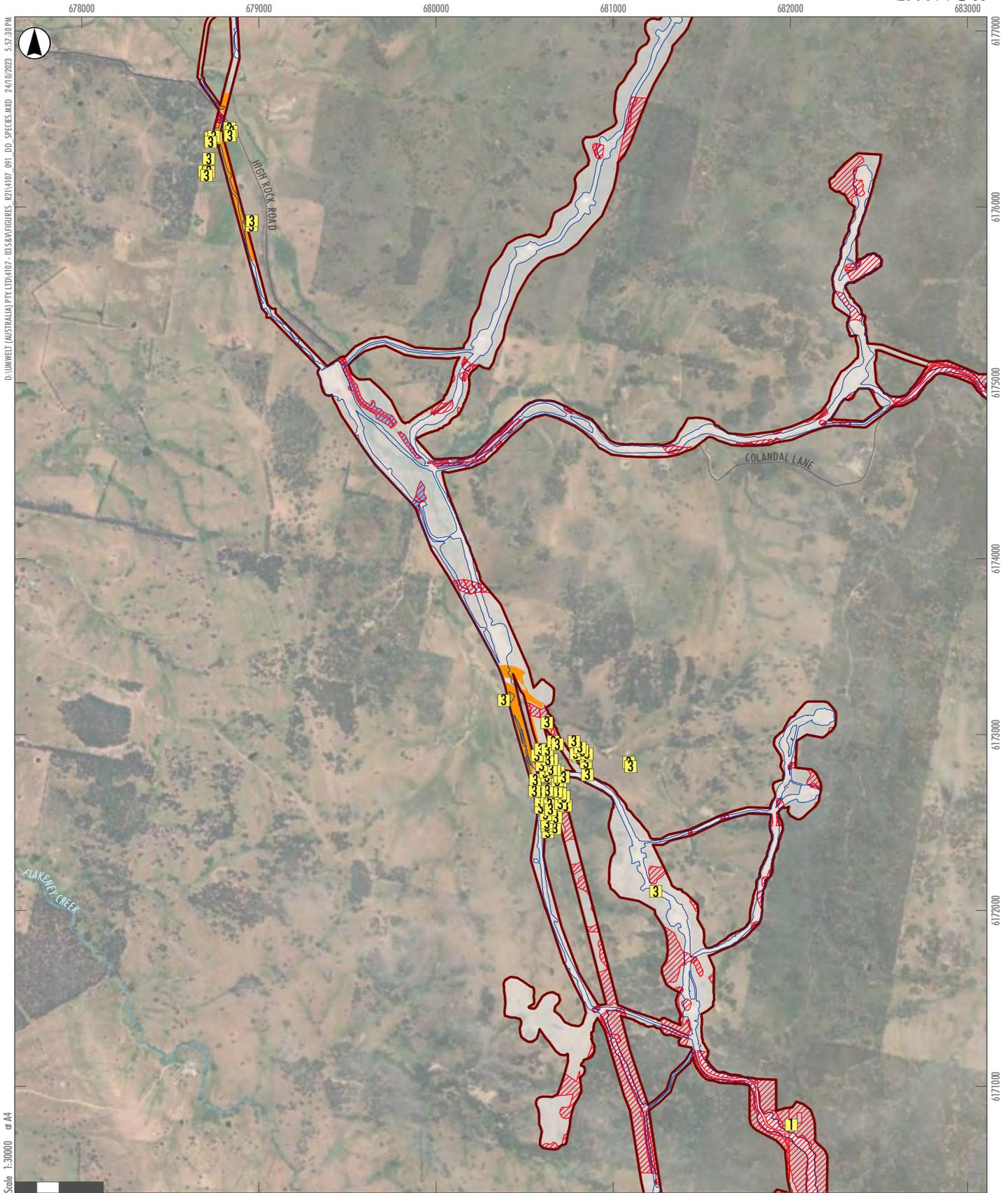
0 250 500 Meters

GDA 1994 MGA Zone 55

- Legend**
- Final Development Footprint
  - Rye Park Wind Farm Development Corridor
  - Road
- Threatened Species Habitat**
- Striped Legless Lizard Habitat
  - Squirrel Glider Habitat
  - Golden Sun Moth Habitat
  - Superb Parrot - Breeding Habitat



**APPENDIX B.c**  
**Threatened Species Habitat & Records in the Final Development Footprint**



D:\UMWELT (AUSTRALIA) PTY LTD\4107 - 033&M\FIGURES R21\4107\_091\_DD\_SPECIES.MXD 24/10/2023 5:57:30 PM  
 Scale 1:30000 at A4

GDA 1994 MGA Zone 55

**Legend**

- Final Development Footprint
- Rye Park Wind Farm Development Corridor
- Watercourses
- Road
- Squirrel Glider Habitat
- Golden Sun Moth Habitat
- Superb Parrot - Breeding Habitat
- Striped Legless Lizard Habitat

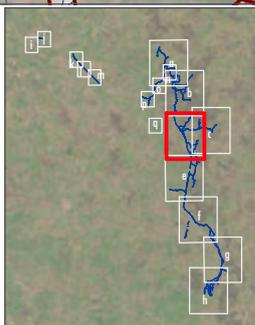
**Threatened Species Records**

- Glider Sp.
- Golden Sun Moth

**Threatened Species Habitat**

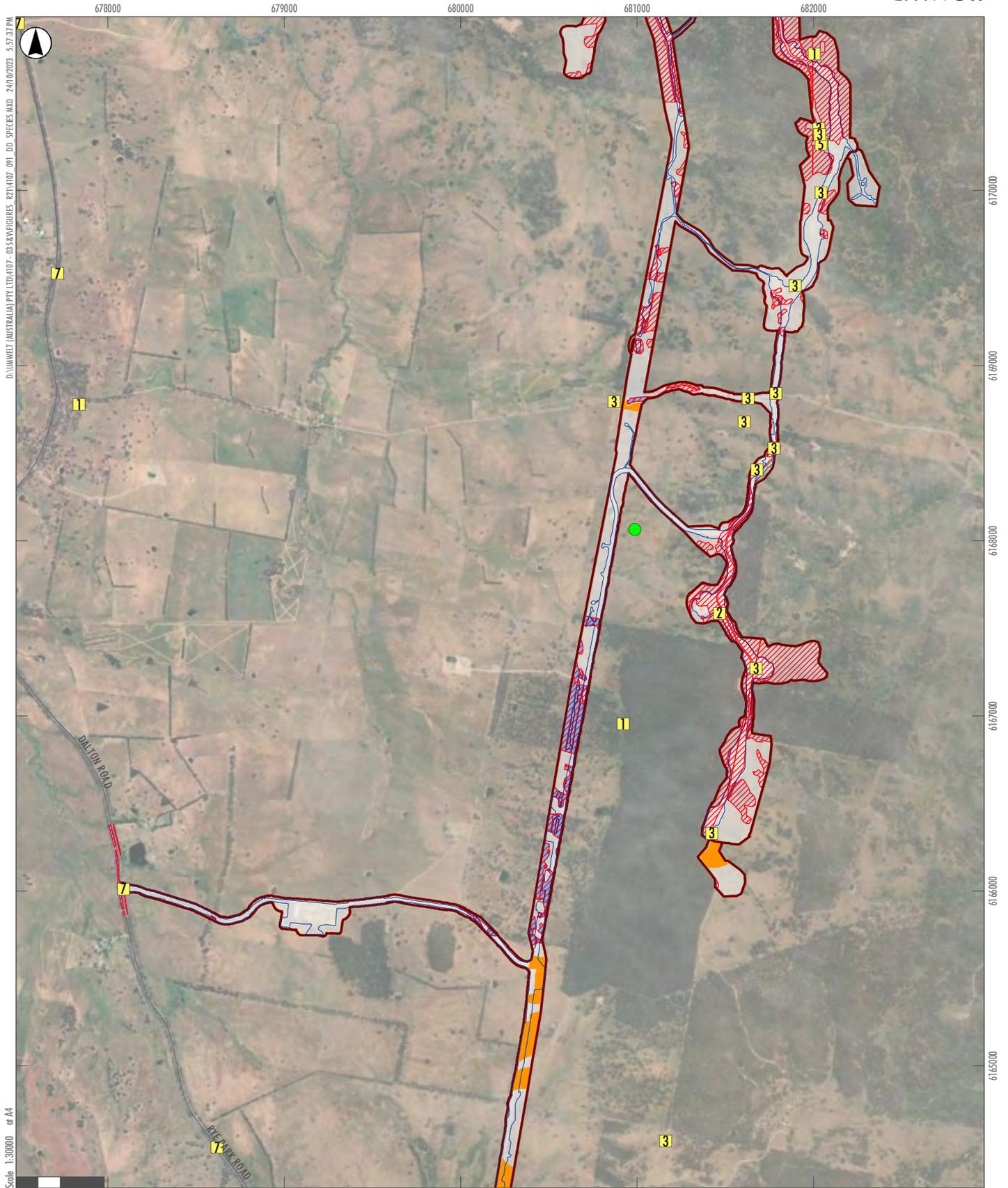
- Striped Legless Lizard Habitat

Image Source: ESRI Basemap (2023) Data source: NSW FSDP (2023), Umwelt (2023); Rye Park Renewable Energy Pty Ltd (2023)



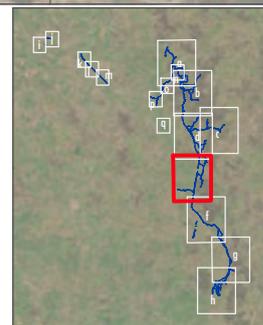
**APPENDIX B.d**

**Threatened Species Habitat & Records in the Final Development Footprint**

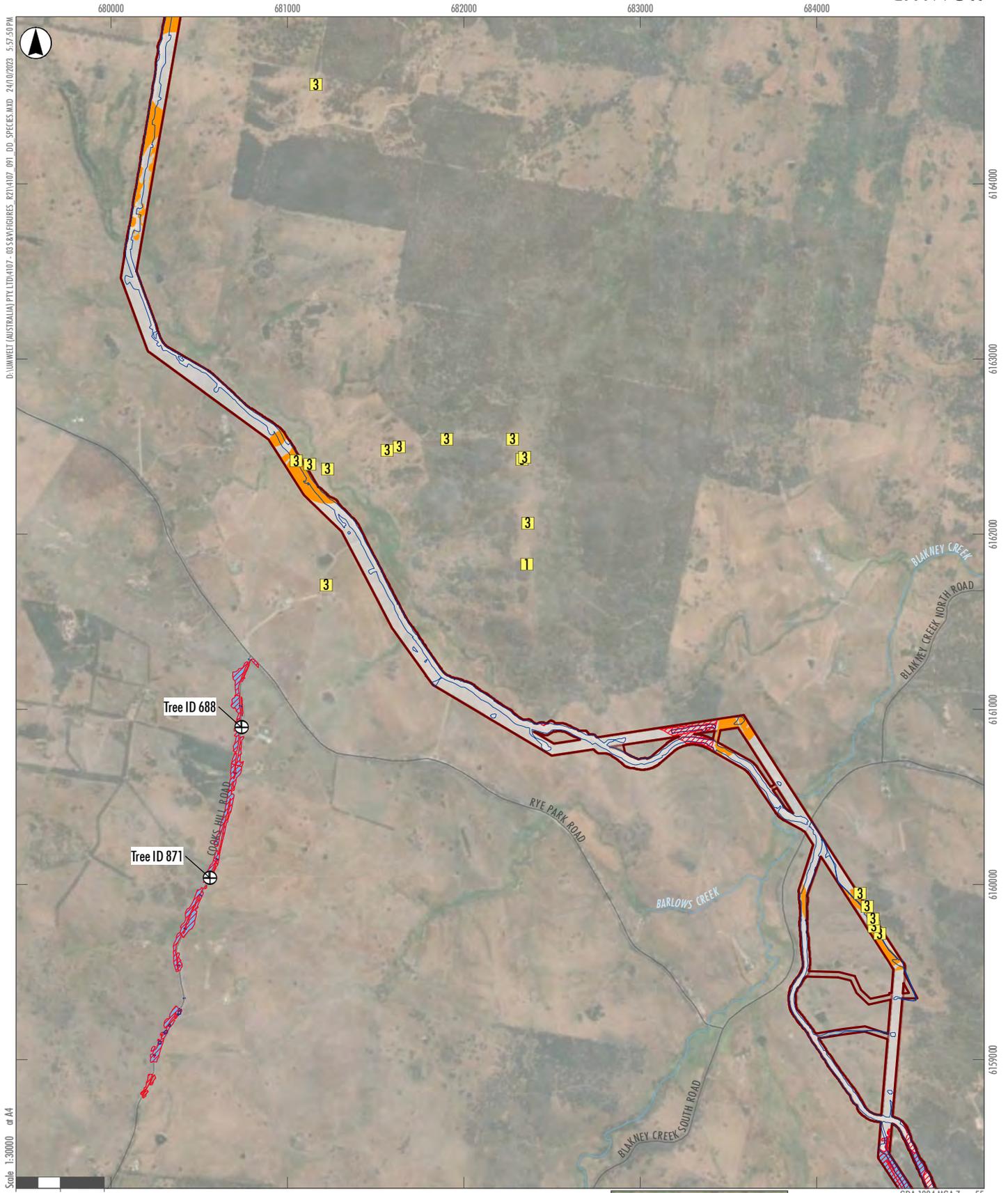


- Scale 1:30000 at A4
- 0 250 500 Meters
- Legend**
- Final Development Footprint
  - Rye Park Wind Farm Development Corridor
  - Watercourses
  - Road
- Threatened Species Records**
- 1 Glider Sp.
  - 2 Squirrel Glider
  - 3 Golden Sun Moth
  - 5 Little Eagle

- 7 Superb Parrot
  - Superb Parrot Nest Tree
- Threatened Species Habitat**
- Striped Legless Lizard Habitat
  - Squirrel Glider Habitat
  - Golden Sun Moth Habitat
  - Superb Parrot - Breeding Habitat

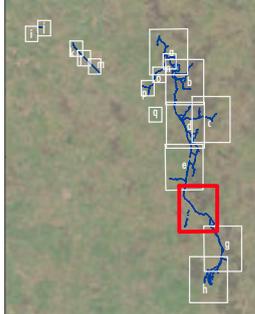


**APPENDIX B.e**  
**Threatened Species Habitat & Records in the Final Development Footprint**

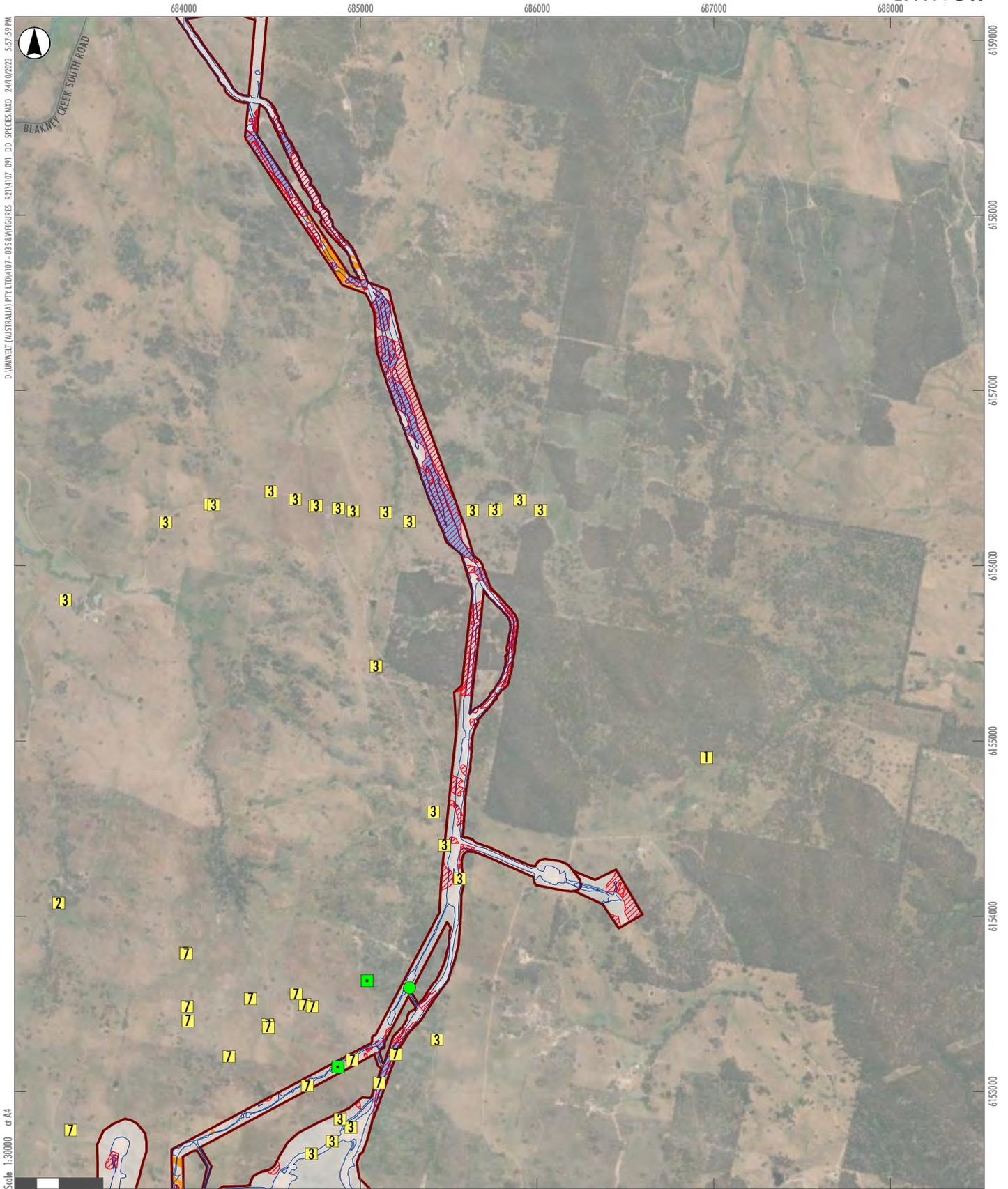


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 Scale 1:30000 at A4

- Legend**
- Final Development Footprint
  - Rye Park Wind Farm Development Corridor
  - Watercourses
  - Road
  - + Suitable Superb Parrot Breeding Trees
- Threatened Species Habitat**
- Striped Legless Lizard Habitat
  - Squirrel Glider Habitat
  - Golden Sun Moth Habitat
  - Superb Parrot - Breeding Habitat
- Threatened Species Records**
- 1 Glider Sp.
  - 3 Golden Sun Moth

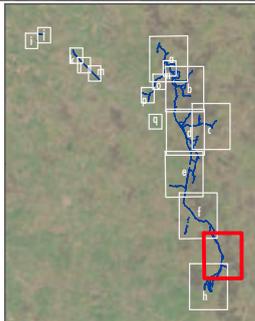


**APPENDIX B.f**  
**Threatened Species Habitat & Records in the Final Development Footprint**



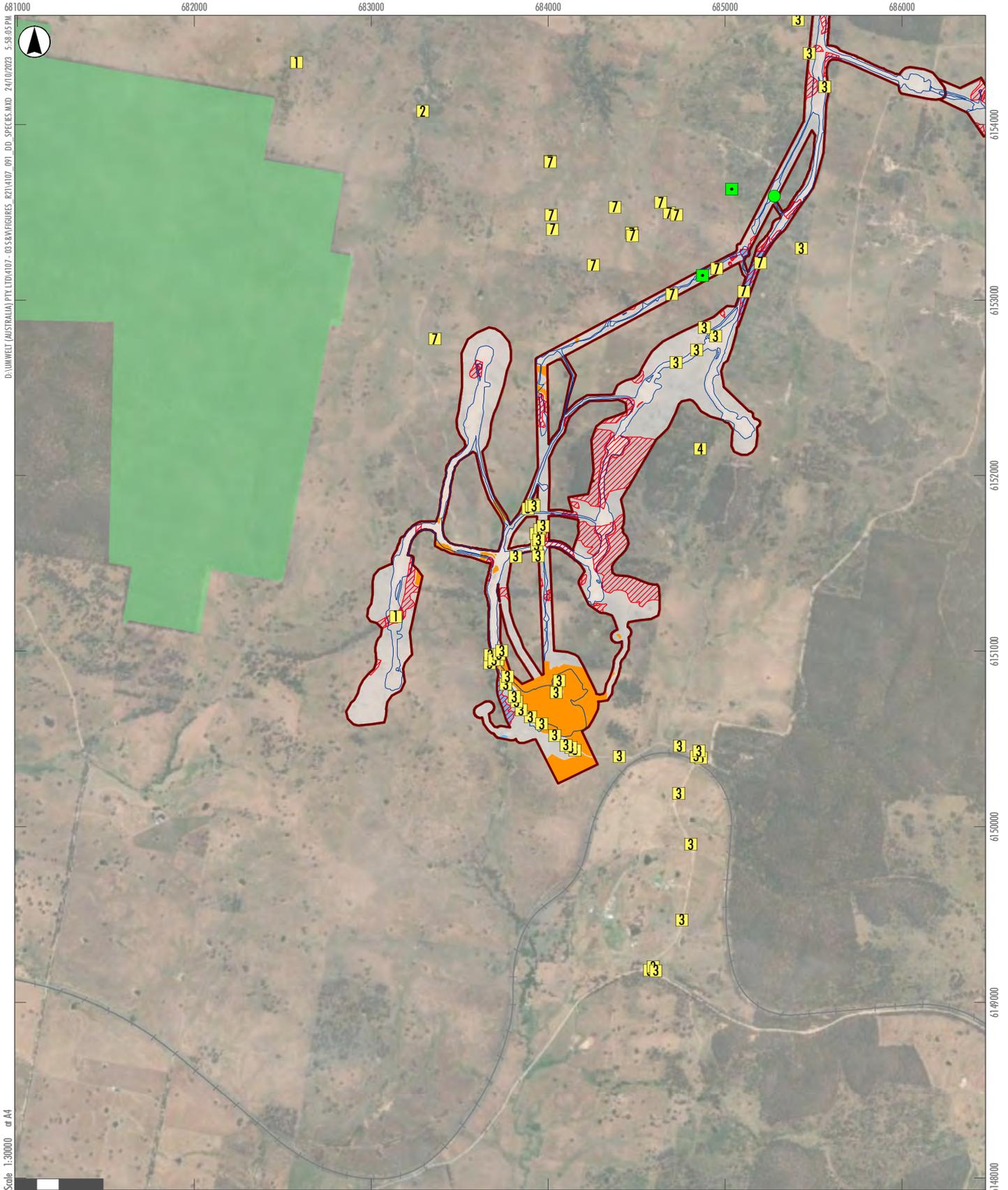
**Legend**

- Final Development Footprint
- Rye Park Wind Farm Development Corridor
- Watercourses
- Road
- Threatened Species Records**
- Glider Sp.
- Squirrel Glider
- Golden Sun Moth
- Superb Parrot
- Potential Superb Parrot Nest Tree
- Superb Parrot Nest Tree
- Threatened Species Habitat**
- Striped Legless Lizard Habitat
- Squirrel Glider Habitat
- Golden Sun Moth Habitat
- Superb Parrot - Breeding Habitat



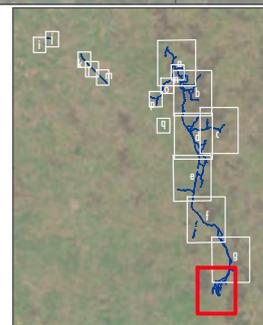
**APPENDIX B.g**

**Threatened Species Habitat & Records in the Final Development Footprint**



- Scale 1:30000 at A4
- Legend**
- Final Development Footprint
  - Rye Park Wind Farm Development Corridor
  - Railway
  - NPWS Reserve
- Threatened Species Records**
- 1 Glider Sp.
  - 2 Squirrel Glider
  - 3 Golden Sun Moth
  - 4 Large bent-winged bat

- 7 Superb Parrot
  - Potential Superb Parrot Nest Tree
  - Superb Parrot Nest Tree
- Threatened Species Habitat**
- Striped Legless Lizard Habitat
  - Squirrel Glider Habitat
  - Golden Sun Moth Habitat
  - Superb Parrot - Breeding Habitat



**APPENDIX B.h**  
**Threatened Species Habitat & Records in the Final Development Footprint**

658000

BRIAL STREET

6186000

D:\UMWELT (AUSTRALIA) PTY LTD\14107 - 03 3&M\FIGURES R21\14107\_091\_DD\_SPECIES.MXD 24/10/2023 5:58:10 PM



6187000

6188000

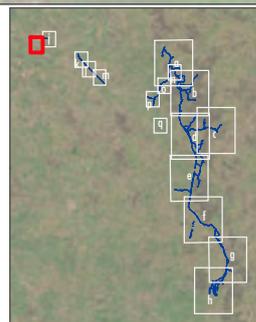
Scale 1:10000 at A4

0 250 500 Meters

GDA 1994 MGA Zone 55

**Legend**

- Final Development Footprint
- Railway
- Road
- Threatened Species Habitat**
- Striped Legless Lizard Habitat
- Squirrel Glider Habitat
- Golden Sun Moth Habitat
- Superb Parrot - Breeding Habitat



**APPENDIX B.i**

**Threatened Species Habitat & Records in the Final Development Footprint**

660000

D:\UMWELT (AUSTRALIA) PTY LTD\4107 - 033&M\FIGURES R21\4107\_091\_DD\_SPECIES.MXD 24/10/2023 5:58:15 PM



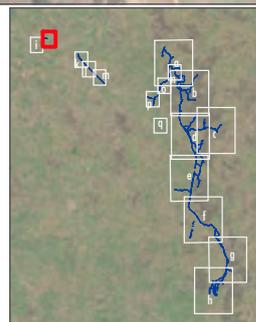
Scale 1:10000 or A4

0 250 500 Meters

GDA 1994 MGA Zone 55

**Legend**

- Final Development Footprint
- Watercourses
- Road
- Threatened Species Habitat**
- Striped Legless Lizard Habitat
- Squirrel Glider Habitat
- Golden Sun Moth Habitat
- Superb Parrot - Breeding Habitat

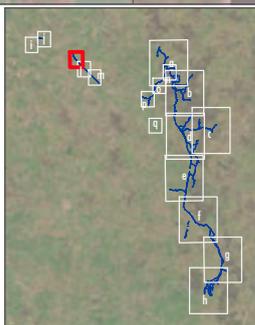


**APPENDIX B.j**

**Threatened Species Habitat & Records in the Final Development Footprint**



- Legend**
- Final Development Footprint
  - Watercourses
  - Road
- Threatened Species Habitat**
- Striped Legless Lizard Habitat
  - Squirrel Glider Habitat
  - Golden Sun Moth Habitat
  - Superb Parrot - Breeding Habitat



**APPENDIX B.k**  
**Threatened Species Habitat & Records in the Final Development Footprint**

665000

666000

D:\UMWELT (AUSTRALIA) PTY LTD\4107 - 03 3&M\FIGURES R21\4107\_091\_DD\_SPECIES.MXD 24/10/2023 5:59:24 PM



6184000

6183000

Scale 1:10000 at A4

0

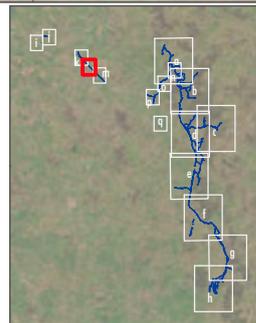
250

500 Meters

GDA 1994 MGA Zone 55

**Legend**

- Final Development Footprint
- Watercourses
- Road
- Threatened Species Habitat**
- Striped Legless Lizard Habitat
- Squirrel Glider Habitat
- Golden Sun Moth Habitat
- Superb Parrot - Breeding Habitat



**APPENDIX B.I**

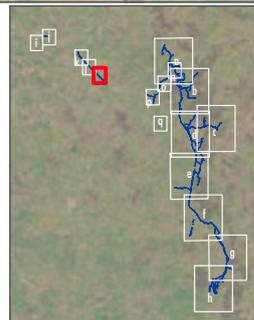
**Threatened Species Habitat & Records in the Final Development Footprint**



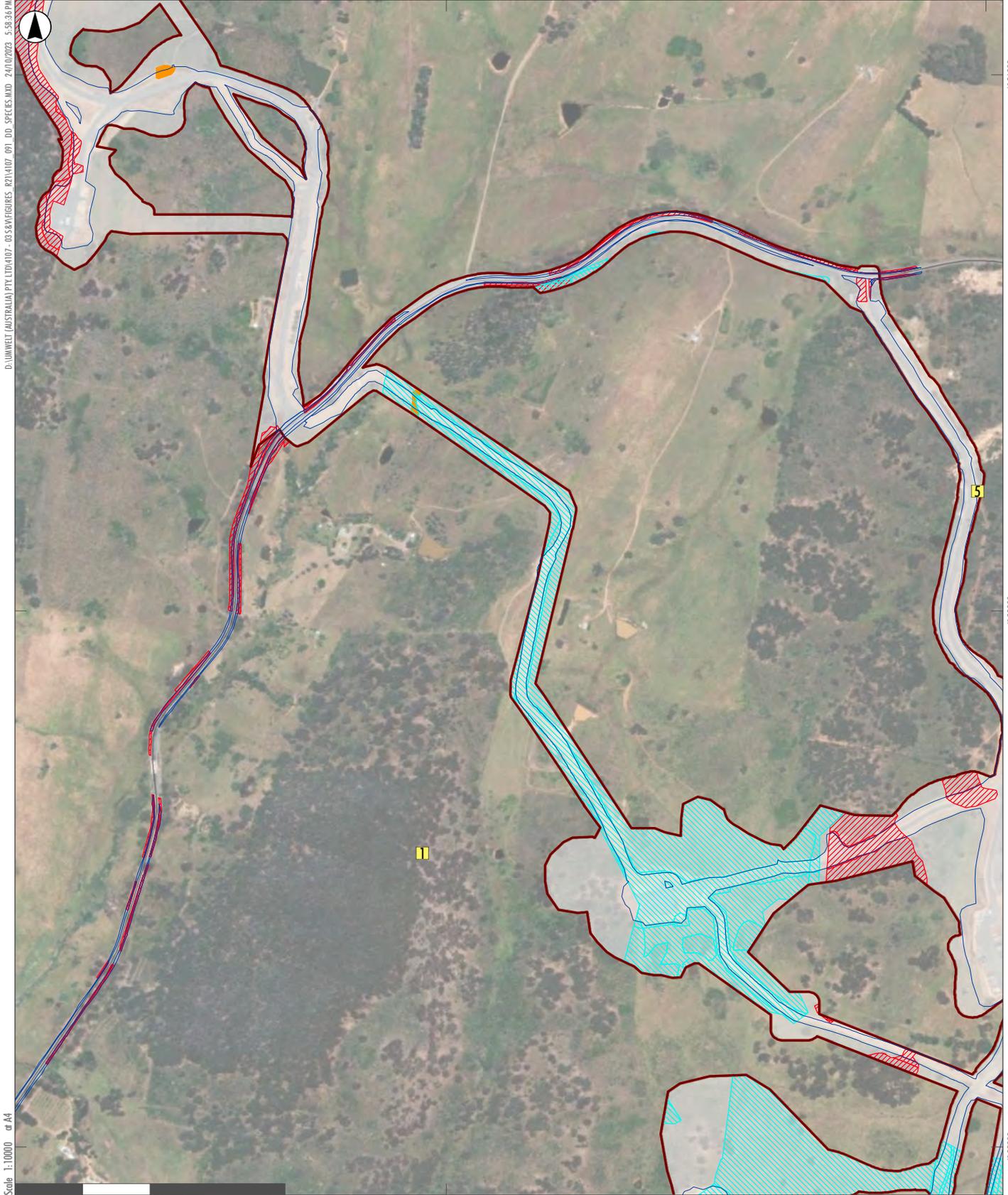
0 250 500 Meters

**Legend**

- Final Development Footprint
- Watercourses
- Road
- Threatened Species Habitat**
- Striped Legless Lizard Habitat
- Squirrel Glider Habitat
- Golden Sun Moth Habitat
- Superb Parrot - Breeding Habitat



**APPENDIX B.m**  
**Threatened Species Habitat & Records in the Final Development Footprint**



Scale 1:10000 at A4  
0 250 500 Meters

GDA 1994 MGA Zone 55

**Legend**

- Final Development Footprint
- Rye Park Wind Farm Development Corridor
- Road
- Golden Sun Moth Habitat
- Superb Parrot - Breeding Habitat

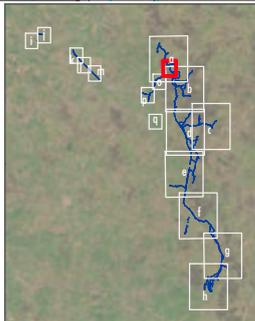
**Threatened Species Records**

- 1 Glider Sp.
- 5 Little Eagle

**Threatened Species Habitat**

- Striped Legless Lizard Habitat
- Squirrel Glider Habitat

Image Source: ESRI Basemap (2023) Data source: NSW FSDf (2023), Umwelt (2023); Rye Park Renewable Energy Pty Ltd (2023)



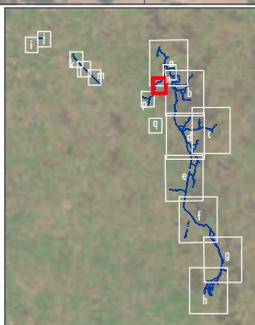
**APPENDIX B.n**

**Threatened Species Habitat & Records in the Final Development Footprint**



D:\UMWELT (AUSTRALIA) PTY LTD\14107 - 03 3&M\FIGURES R21\14107\_091\_DD\_SPECIES.MXD 24/10/2023 5:58:41 PM  
 Scale 1:10000 at A4

- Legend**
- Final Development Footprint
  - Road
- Threatened Species Habitat**
- Striped Legless Lizard Habitat
  - Squirrel Glider Habitat
  - Golden Sun Moth Habitat
  - Superb Parrot - Breeding Habitat



**APPENDIX B.o**  
**Threatened Species Habitat & Records in the Final Development Footprint**

674000

675000

618000

617900



D:\UMWELT (AUSTRALIA) PTY LTD\4107 - 03 3&M\FIGURES R21\4107\_091\_DD\_SPECIES.MXD 24/10/2023 5:58:46 PM

Scale 1:10000 at A4

GDA 1994 MGA Zone 55

**Legend**

Final Development Footprint      Superb Parrot - Breeding Habitat

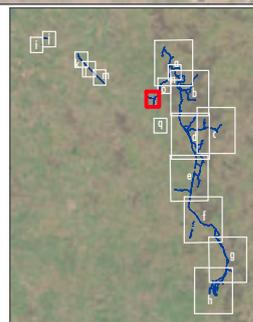
Watercourses  
Road

**Threatened Species Records**

6 Southern Myotis

**Threatened Species Habitat**

Striped Legless Lizard Habitat  
Squirrel Glider Habitat  
Golden Sun Moth Habitat



**APPENDIX B.p**

**Threatened Species Habitat  
& Records in the  
Final Development  
Footprint**

676000

D:\UMWELT (AUSTRALIA) PTY LTD\4107 - 03 3&M\FIGURES\_R21\4107\_091\_DD\_SPECIES.MXD 24/10/2023 5:59:51 PM



6176000

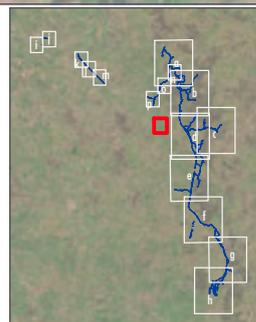
6175000

GDA 1994 MGA Zone 55

Scale 1:10000 of A4

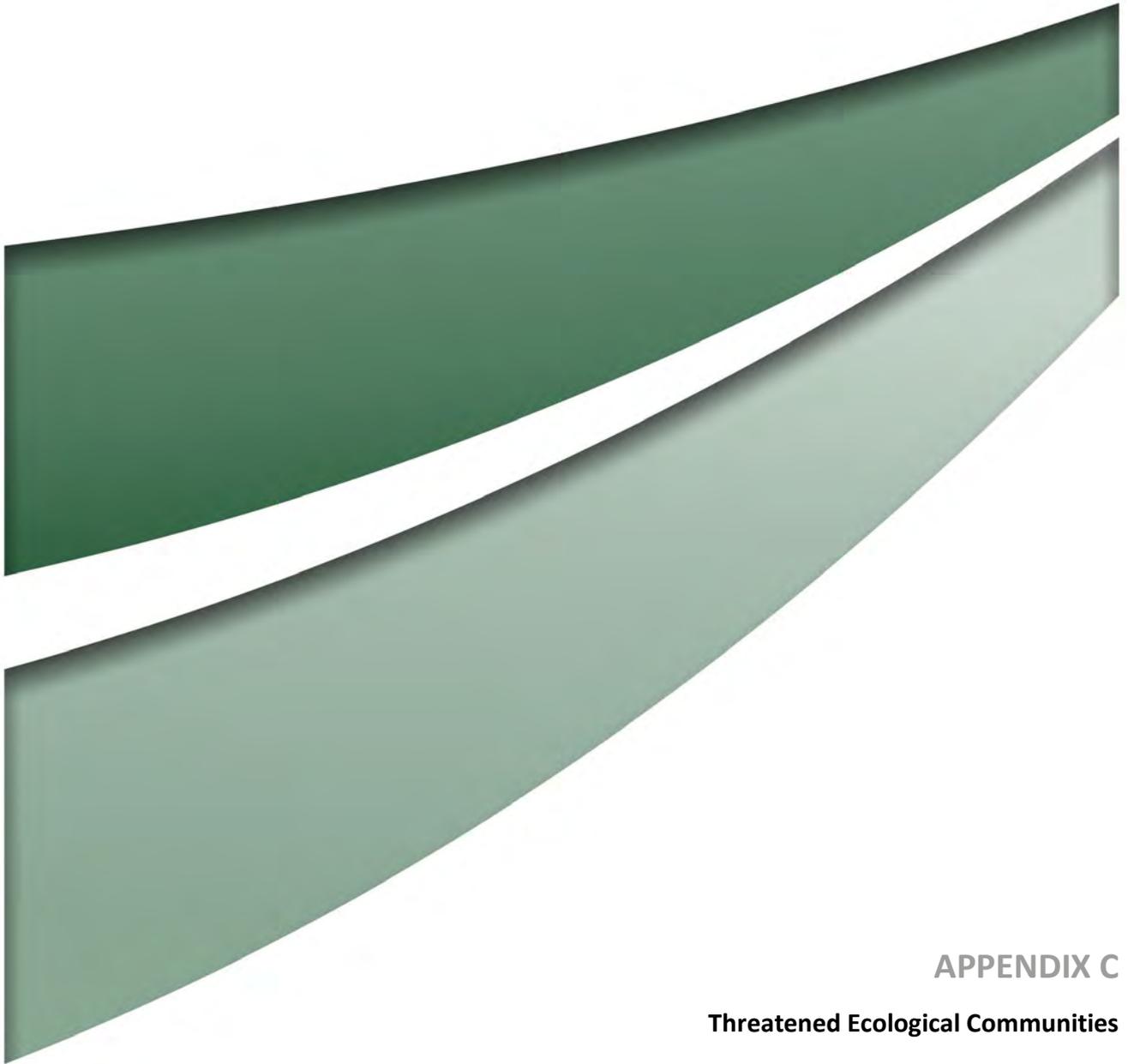
**Legend**

- Watercourses
- Road
- Threatened Species Records**
- 7 Superb Parrot
- Threatened Species Habitat**
- Striped Legless Lizard Habitat
- Squirrel Glider Habitat
- Golden Sun Moth Habitat
- Superb Parrot - Breeding Habitat



**APPENDIX B.q**

**Threatened Species Habitat & Records in the Final Development Footprint**

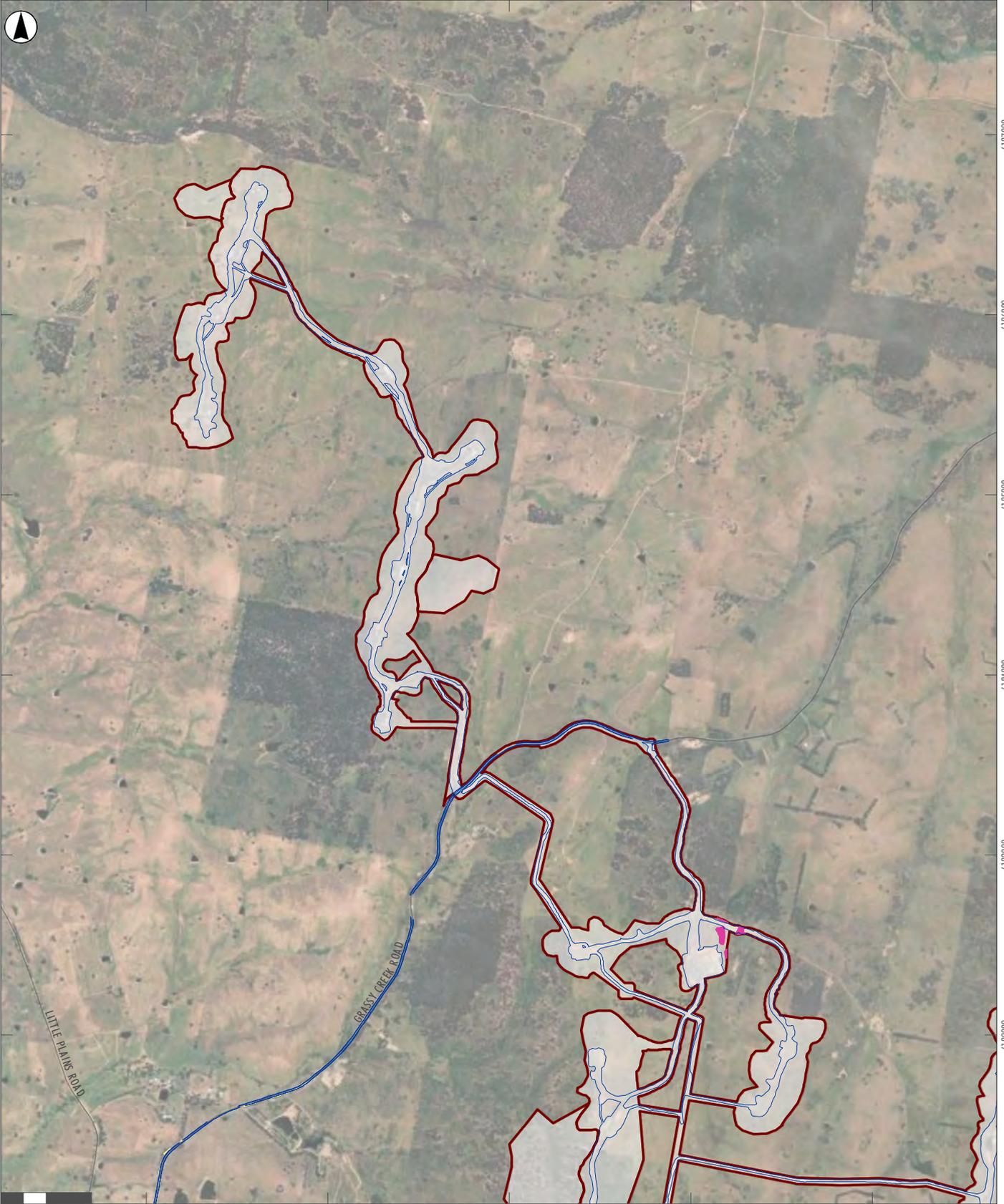


## APPENDIX C

### Threatened Ecological Communities

676000 677000 678000 679000 680000

D:\UMWELT (AUSTRALIA) PTY LTD\4107 - 03 SRV\FIGURES\_R21\4107\_092\_DO\_TECs.MXD 24/10/2023 6:17:00 PM



Scale 1:30000 at A4

GDA 1994 MGA Zone 55

**Legend**

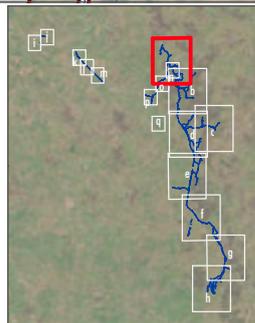
- Final Development Footprint
- Rye Park Wind Farm Development Corridor
- Road

**Threatened Ecological Communities (BC Act)**

- White Box – Yellow Box – Blakely’s Red Gum Grassy Woodland and Derived Native Grassland CEEC (BC Act)

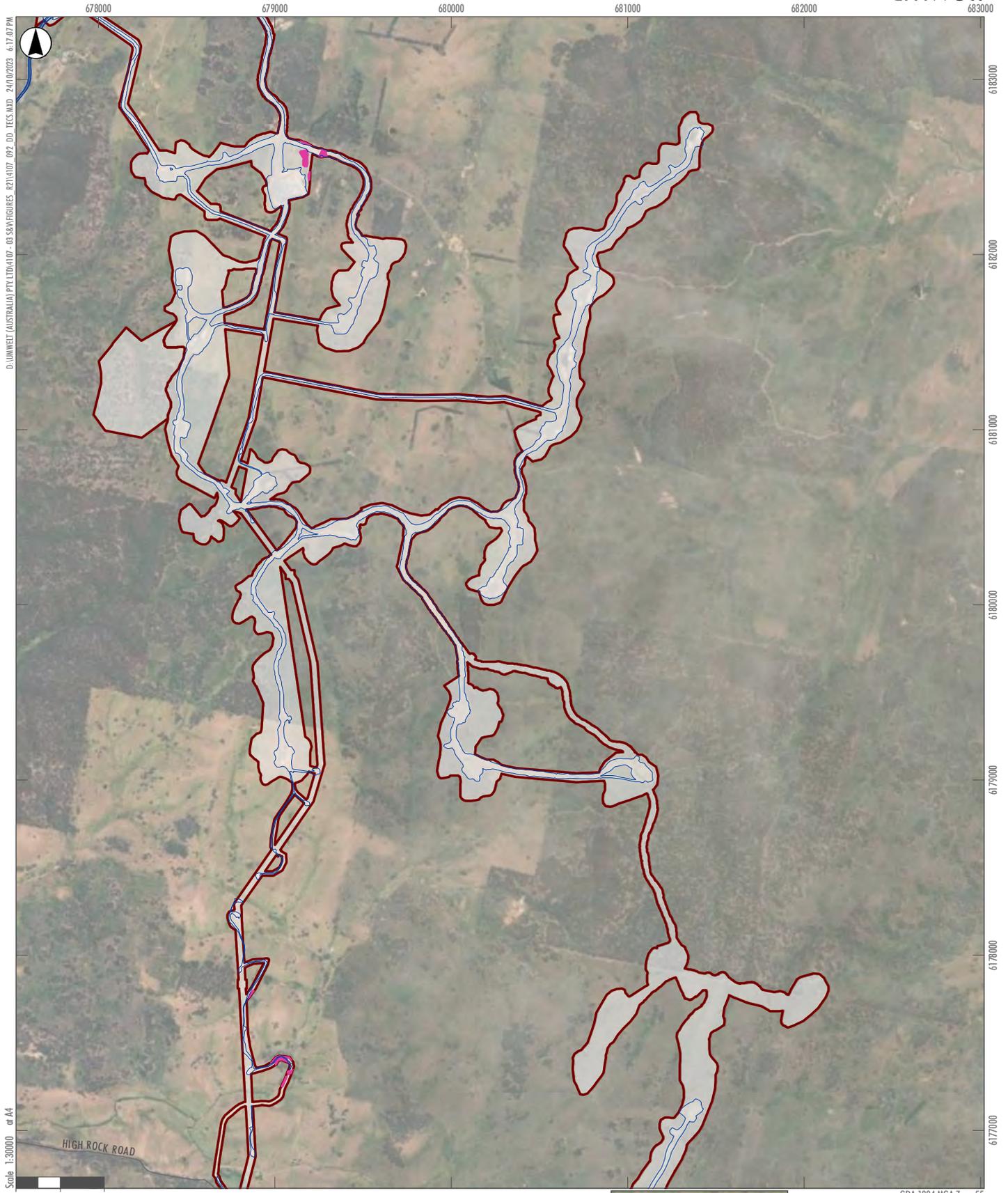
**Threatened Ecological Communities (BC Act & EPBC Act)**

- White Box – Yellow Box – Blakely’s Red Gum Grassy Woodland and Derived Native Grassland CEEC (BC Act) /
- White Box - Yellow Box - Blakely’s Red Gum Grassy Woodlands and Derived Native Grasslands CEEC (EPBC Act)



**APPENDIX C.a**

**Threatened Vegetation Communities in the Final Development Footprint**



Scale 1:30000 at A4

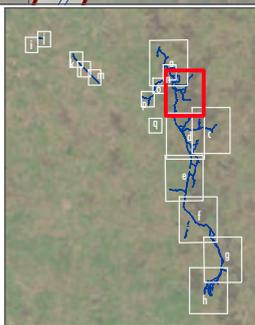
GDA 1994 MGA Zone 55

**Legend**

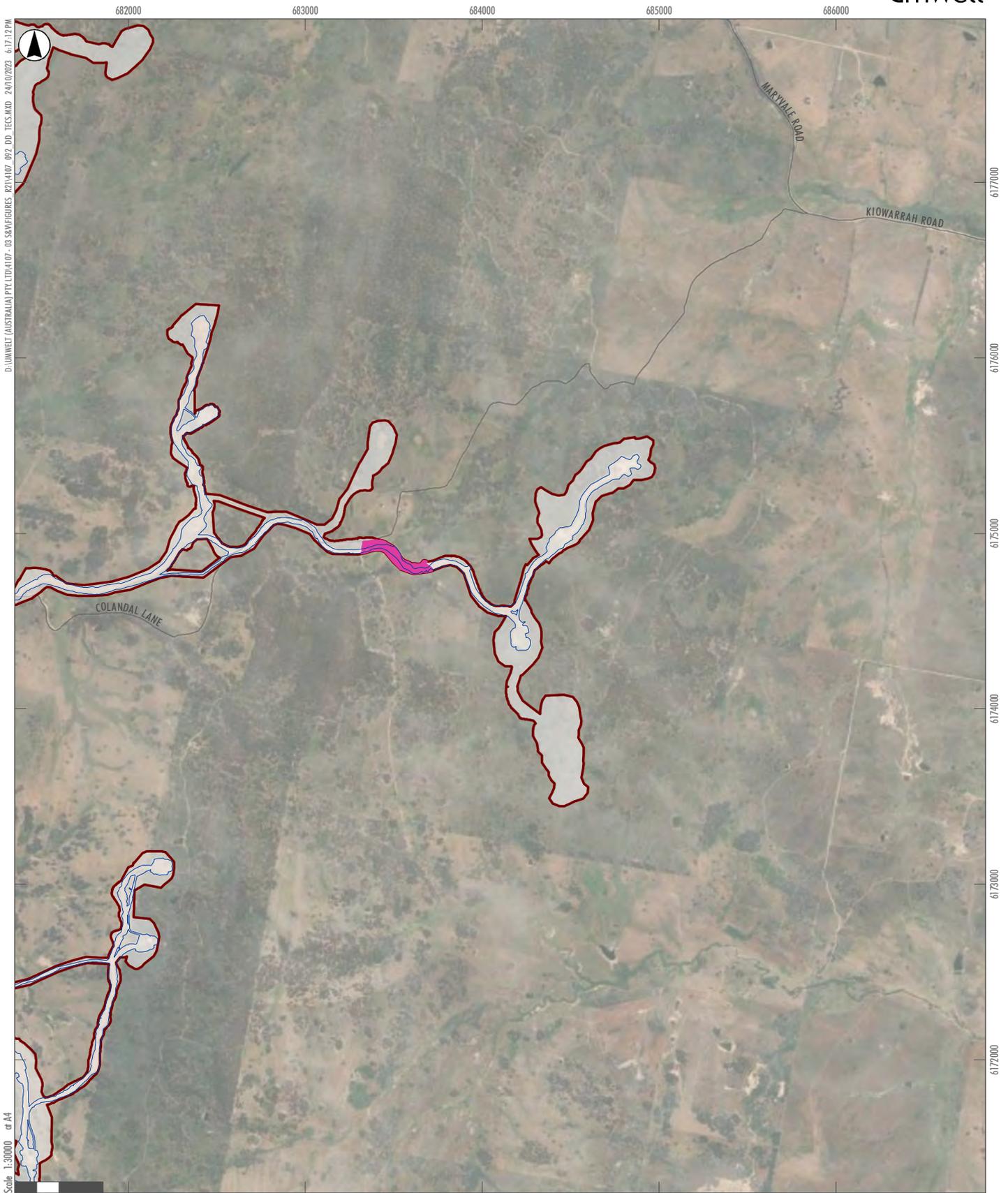
- Final Development Footprint
- Rye Park Wind Farm Development Corridor
- Road

**Threatened Ecological Communities (BC Act & EPBC Act)**

- White Box – Yellow Box – Blakely’s Red Gum Grassy Woodland and Derived Native Grassland CEEC (BC Act) /
- White Box - Yellow Box - Blakely's Red Gum Grassy Woodlands and Derived Native Grasslands CEEC (EPBC Act)



**APPENDIX C.b**  
**Threatened Vegetation Communities in the Final Development Footprint**



Scale 1:30000 at A4

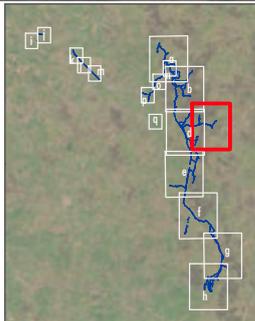
GDA 1994 MGA Zone 55

**Legend**

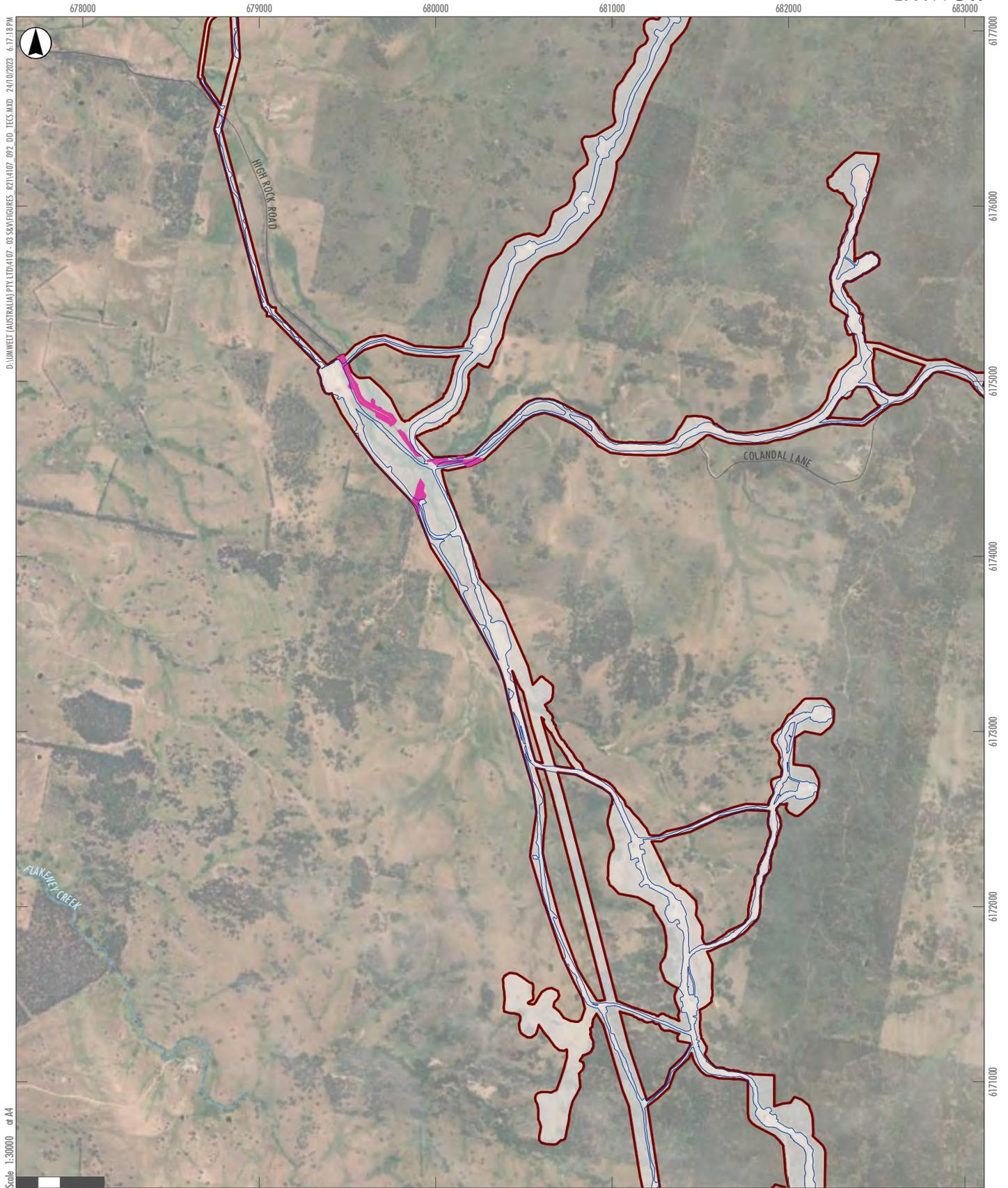
- Final Development Footprint
- Rye Park Wind Farm Development Corridor
- Road

**Threatened Ecological Communities (BC Act & EPBC Act)**

- White Box – Yellow Box – Blakely’s Red Gum Grassy Woodland and Derived Native Grassland CEEC (BC Act) /
- White Box - Yellow Box - Blakely's Red Gum Grassy Woodlands and Derived Native Grasslands CEEC (EPBC Act)



**APPENDIX C.c**  
**Threatened Vegetation Communities in the Final Development Footprint**

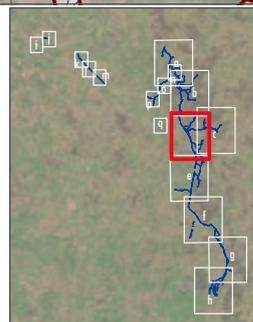


**Legend**

- Final Development Footprint
- Rye Park Wind Farm Development Corridor
- Watercourses
- Road

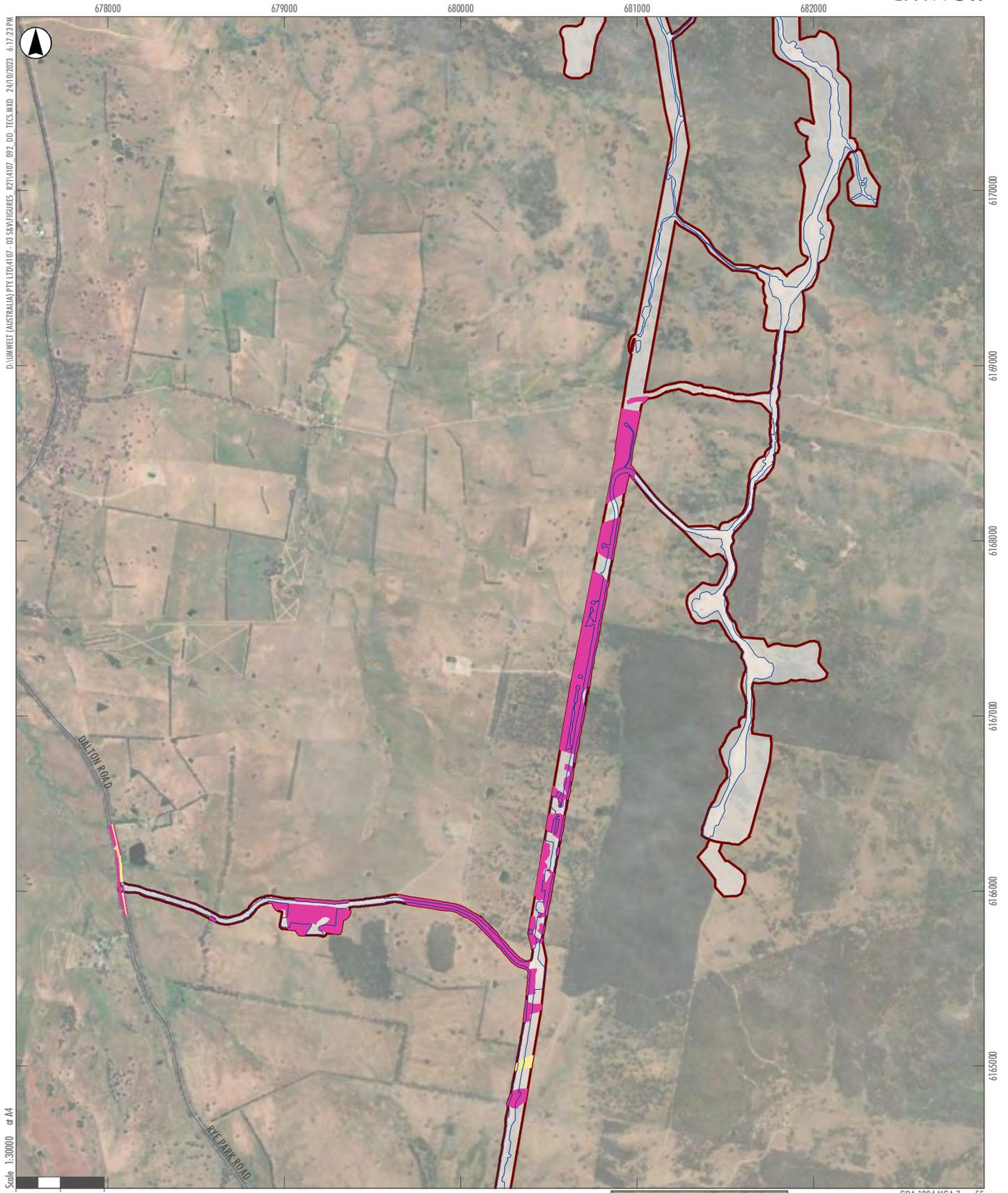
**Threatened Ecological Communities (BC Act & EPBC Act)**

- White Box – Yellow Box – Blakely’s Red Gum Grassy Woodland and Derived Native Grassland CEEC (BC Act) / White Box - Yellow Box - Blakely’s Red Gum Grassy Woodlands and Derived Native Grasslands CEEC (EPBC Act)
- Woodland and Derived Native Grassland CEEC (BC Act) / White Box - Yellow Box - Blakely’s Red Gum Grassy Woodlands and Derived Native Grasslands CEEC (EPBC Act)



**APPENDIX C.d**

**Threatened Vegetation Communities in the Final Development Footprint**



**Legend**

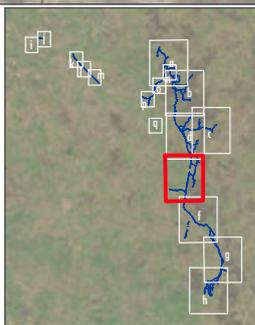
- Final Development Footprint
- Rye Park Wind Farm Development Corridor
- Watercourses
- Road

**Threatened Ecological Communities (BC Act)**

- White Box – Yellow Box – Blakely’s Red Gum Grassy Woodland and Derived Native Grassland CEEC (BC Act)

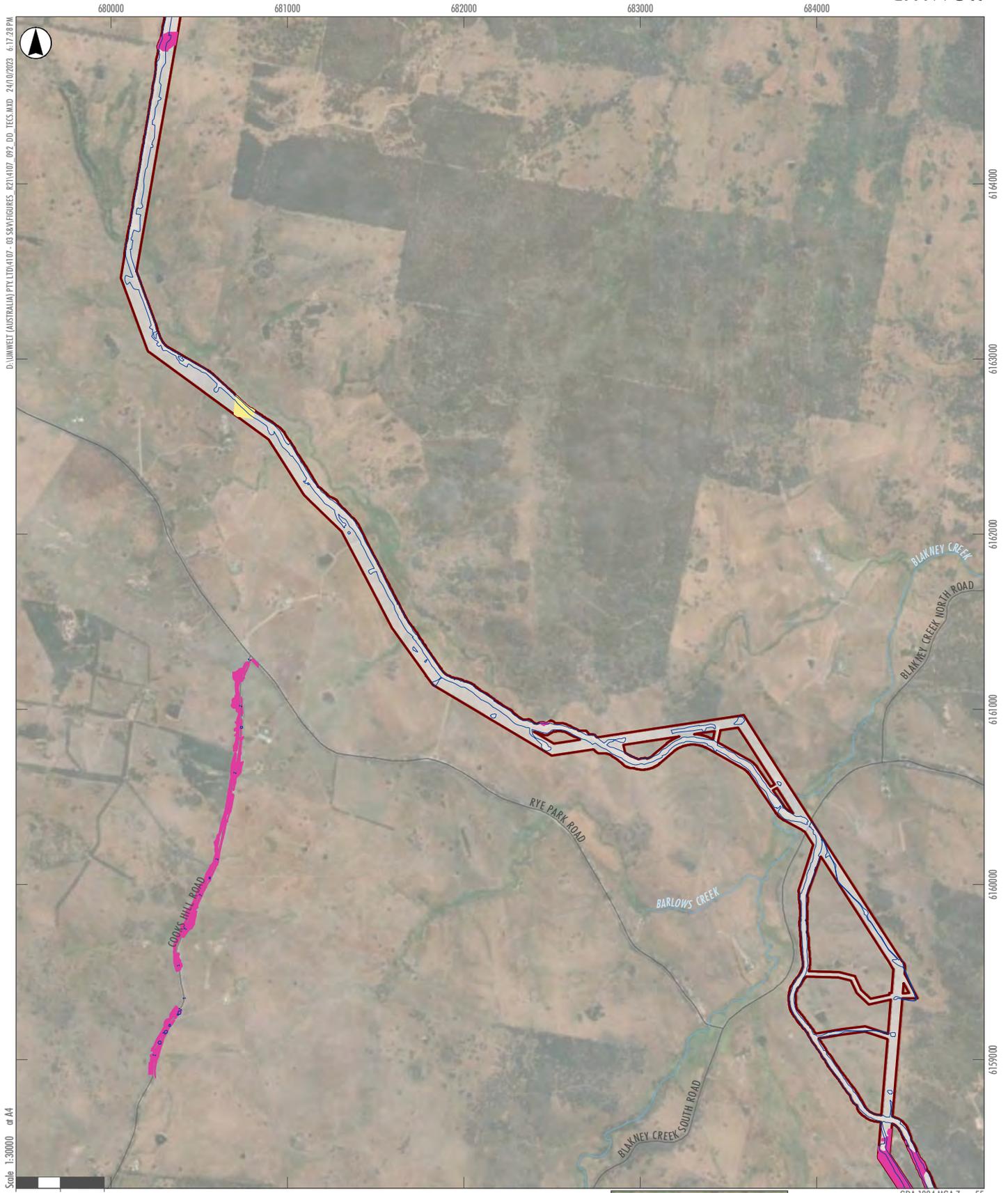
**Threatened Ecological Communities (BC Act & EPBC Act)**

- White Box – Yellow Box – Blakely’s Red Gum Grassy Woodland and Derived Native Grassland CEEC (BC Act) /
- White Box - Yellow Box - Blakely’s Red Gum Grassy Woodlands and Derived Native Grasslands CEEC (EPBC Act)



**APPENDIX C.e**

**Threatened Vegetation Communities in the Final Development Footprint**



D:\UMWELT (AUSTRALIA) PTY LTD\4107 - 03 SRV\FIGURES\_R21\4107\_092\_DO\_TECs.MXD 24/10/2023 6:17:28 PM

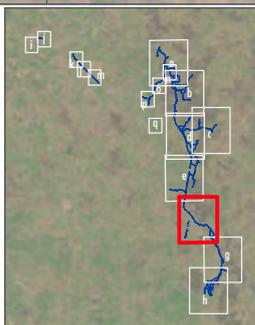
Scale 1:30000 at A4

GDA 1994 MGA Zone 55

**Legend**

- Final Development Footprint
- Rye Park Wind Farm Development Corridor
- Watercourses
- Road
- Threatened Ecological Communities (BC Act)**
- White Box – Yellow Box – Blakely’s Red Gum Grassy Woodland and Derived Native Grassland CEEC (BC Act)
- White Box - Yellow Box - Blakely’s Red Gum Grassy Woodlands and Derived Native Grasslands CEEC (EPBC Act)

- Threatened Ecological Communities (BC Act & EPBC Act)**
- White Box – Yellow Box – Blakely’s Red Gum Grassy Woodland and Derived Native Grassland CEEC (BC Act) / White Box - Yellow Box - Blakely’s Red Gum Grassy Woodlands and Derived Native Grasslands CEEC (EPBC Act)



**APPENDIX C.f**

**Threatened Vegetation Communities in the Final Development Footprint**



Scale 1:30000 or A4

GDA 1994 MGA Zone 55

**Legend**

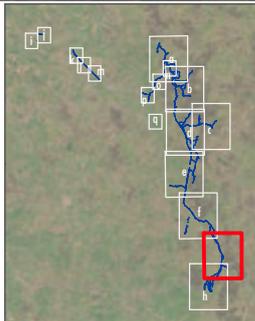
- Final Development Footprint
- Rye Park Wind Farm Development Corridor
- Watercourses
- Road

**Threatened Ecological Communities (BC Act)**

- White Box – Yellow Box – Blakely’s Red Gum Grassy Woodland and Derived Native Grassland CEEC (BC Act)

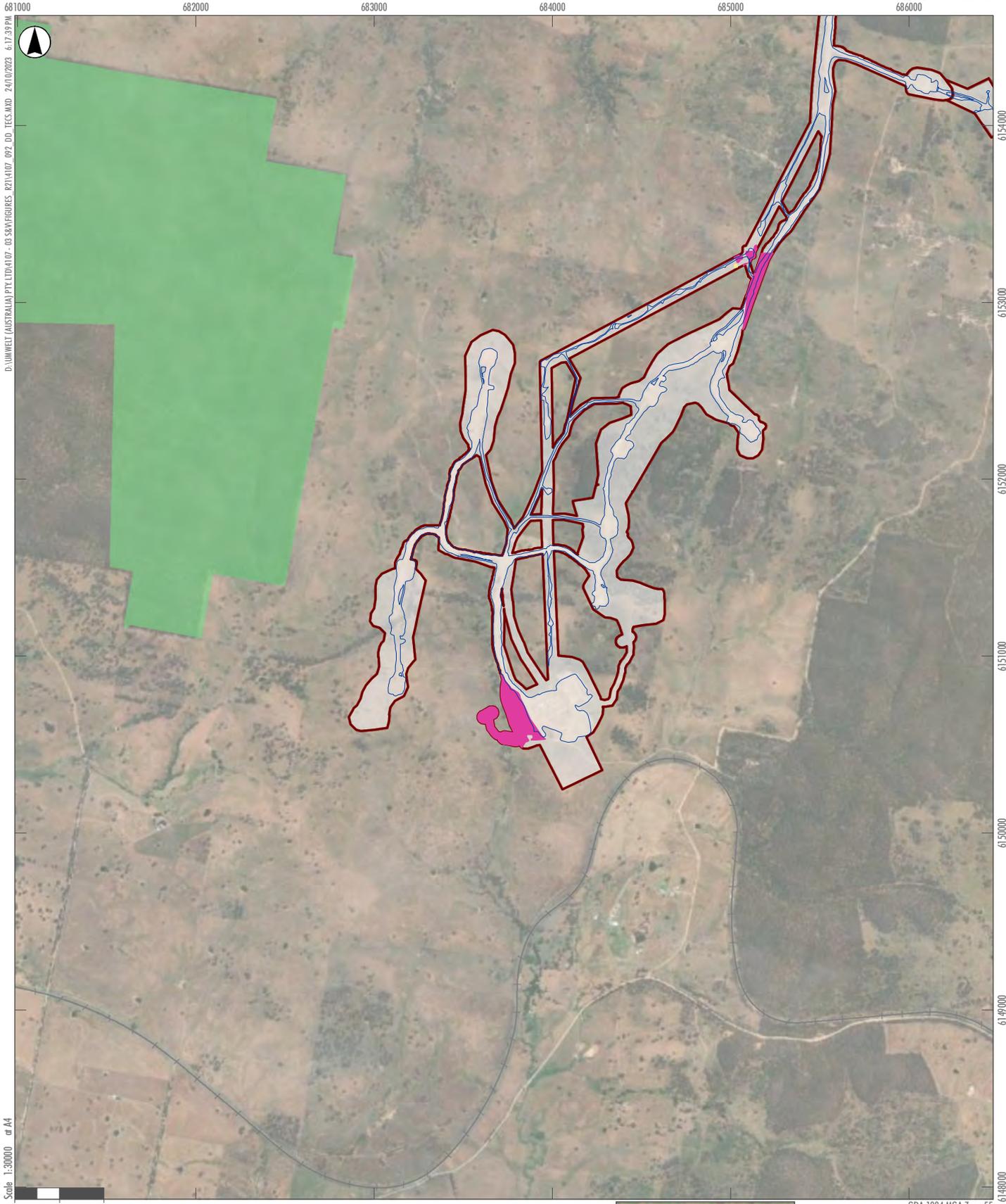
**Threatened Ecological Communities (BC Act & EPBC Act)**

- White Box – Yellow Box – Blakely’s Red Gum Grassy Woodland and Derived Native Grassland CEEC (BC Act) /
- White Box - Yellow Box - Blakely's Red Gum Grassy Woodlands and Derived Native Grasslands CEEC (EPBC Act)



**APPENDIX C.g**

**Threatened Vegetation Communities in the Final Development Footprint**



D:\UMWELT (AUSTRALIA) PVT.LTD\4107 - 03 SRV\FIGURES 121\4107\_092.DD\_TEC5.MXD 24/10/2023 6:17:39PM

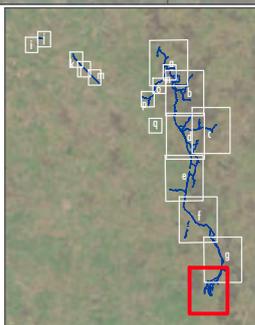
Scale 1:30000 at A4

GDA 1994 MGA Zone 55

**Legend**

- Final Development Footprint
- Rye Park Wind Farm Development Corridor
- Railway
- NPWS Reserve
- Threatened Ecological Communities (BC Act)**
- White Box – Yellow Box – Blakely’s Red Gum Grassy Woodland and Derived Native Grassland CEEC (BC Act)

- Threatened Ecological Communities (BC Act & EPBC Act)**
- White Box – Yellow Box – Blakely’s Red Gum Grassy Woodland and Derived Native Grassland CEEC (BC Act) /
- White Box - Yellow Box - Blakely’s Red Gum Grassy Woodlands and Derived Native Grasslands CEEC (EPBC Act)



**APPENDIX C.h**  
**Threatened Vegetation Communities in the Final Development Footprint**

658000

BRIAL STREET

6186000

D:\UMWELT (AUSTRALIA) PTY LTD\4107 - 03 SRV\FIGURES\_R21\4107\_092\_DO\_TECs.MXD 24/10/2023 6:17:43 PM



6187000

6186000

GDA 1994 MGA Zone 55

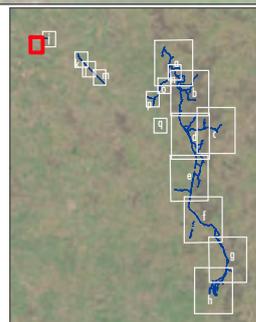
Scale 1:10000 or A4

**Legend**

- Final Development Footprint
- Railway
- Road

**Threatened Ecological Communities (BC Act)**

- White Box - Yellow Box - Blakely's Red Gum Grassy Woodland and Derived Native Grassland CEEC (BC Act)



**APPENDIX C.i**

**Threatened Vegetation Communities in the Final Development Footprint**

660000

D:\UMWELT (AUSTRALIA) PTY LTD\4107 - 03 SRV\FIGURES\_R21\4107\_092\_DO\_TECs.MXD 24/10/2023 6:17:48 PM



Scale 1:10000 or A4

0 250 500 Meters

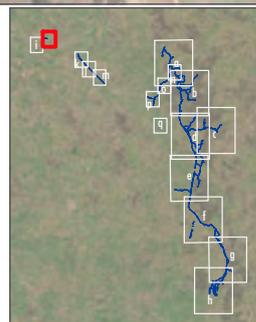
GDA 1994 MGA Zone 55

**Legend**

- Final Development Footprint
- Watercourses
- Road

**Threatened Ecological Communities (BC Act)**

- White Box – Yellow Box – Blakely’s Red Gum Grassy Woodland and Derived Native Grassland CEEC (BC Act)



**APPENDIX C.j**

**Threatened Vegetation Communities in the Final Development Footprint**



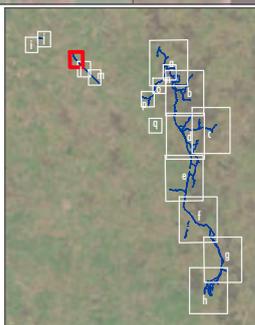
D:\UMWELT (AUSTRALIA) PTY LTD\4107 - 03 SRV\FIGURES\_R21\4107\_092\_DO\_TECs.MXD 24/10/2023 6:17:52 PM  
 Scale 1:10000 at A4

**Legend**

- Final Development Footprint
- Watercourses
- Road
- Threatened Ecological Communities (BC Act)**
- White Box – Yellow Box – Blakely’s Red Gum Grassy Woodland and Derived Native Grassland CEEC (BC Act)

**Threatened Ecological Communities (BC Act & EPBC Act)**

- White Box – Yellow Box – Blakely’s Red Gum Grassy Woodland and Derived Native Grassland CEEC (BC Act) /
- White Box - Yellow Box - Blakely's Red Gum Grassy Woodlands and Derived Native Grasslands CEEC (EPBC Act)



**APPENDIX C.k**

**Threatened Vegetation Communities in the Final Development Footprint**



D:\UMWELT (AUSTRALIA) PVT.LTD\4107 - 03 SRV\FIGURES 121\4107\_092.DD\_TEC5.MXD 24/10/2023 6:17:57 PM

Scale 1:10000 or A4

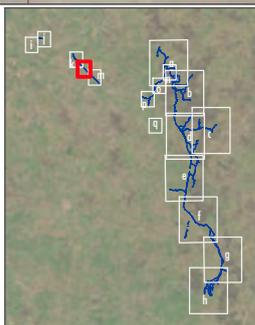
GDA 1994 MGA Zone 55

**Legend**

- Final Development Footprint
- Watercourses
- Road

**Threatened Ecological Communities (BC Act & EPBC Act)**

- White Box – Yellow Box – Blakely’s Red Gum Grassy Woodland and Derived Native Grassland CEEC (BC Act) /
- White Box - Yellow Box - Blakely's Red Gum Grassy Woodlands and Derived Native Grasslands CEEC (EPBC Act)



**APPENDIX C.I**

**Threatened Vegetation Communities in the Final Development Footprint**

667000

668000

D:\UMWELT (AUSTRALIA) PTY LTD\4107 - 03 SRV\FIGURES 121\4107\_092.DD\_TEC5.MXD 24/10/2023 6:18:01 PM



6103019

6102019

Scale 1:10000 at A4

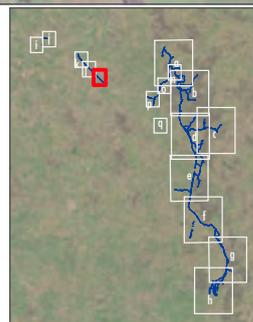
GDA 1994 MGA Zone 55

**Legend**

- Final Development Footprint
- Watercourses
- Road

**Threatened Ecological Communities (BC Act)**

- White Box – Yellow Box – Blakely’s Red Gum Grassy Woodland and Derived Native Grassland CEEC (BC Act)



**APPENDIX C.m**

**Threatened Vegetation Communities in the Final Development Footprint**

678000

D:\UMWELT (AUSTRALIA) PTY LTD\4107 - 03 SRV\FIGURES\_R21\4107\_092\_DO\_TEC5.MXD 24/10/2023 6:18:07 PM



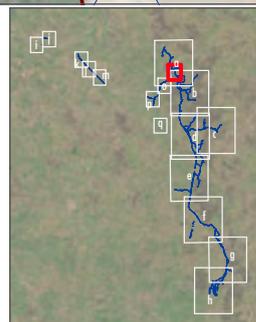
Scale 1:10000 at A4

0 250 500 Meters

GDA 1994 MGA Zone 55

**Legend**

- Final Development Footprint
- Rye Park Wind Farm Development Corridor
- Road



**APPENDIX C.n**  
**Threatened Vegetation Communities in the Final Development Footprint**

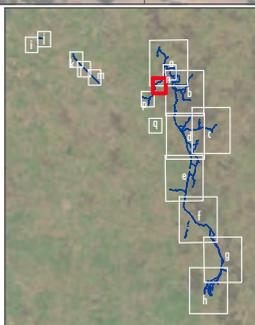


D:\UMWELT (AUSTRALIA) PTY LTD\4107 - 03 SRV\FIGURES\_R21\4107\_092\_DO\_TECs.MXD 24/10/2023 6:18:12 PM  
 Scale 1:10000 at A4

**Legend**

- Final Development Footprint
- Road
- Threatened Ecological Communities (BC Act)**
- White Box – Yellow Box – Blakely’s Red Gum Grassy Woodland and Derived Native Grassland CEEC (BC Act)

- Threatened Ecological Communities (BC Act & EPBC Act)**
- White Box – Yellow Box – Blakely’s Red Gum Grassy Woodland and Derived Native Grassland CEEC (BC Act) /  White Box - Yellow Box - Blakely’s Red Gum Grassy Woodlands and Derived Native Grasslands CEEC (EPBC Act)



GDA 1994 MGA Zone 55

**APPENDIX C.o**  
**Threatened Vegetation Communities in the Final Development Footprint**

674000

675000

618000

617900



D:\UMWELT (AUSTRALIA) PTY LTD\4107 - 03 SRV\FIGURES 121\4107\_092.DD\_TECs.MXD 24/10/2023 6:18:16 PM

Scale 1:10000 at A4

GDA 1994 MGA Zone 55

**Legend**

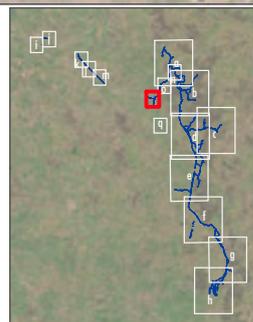
- Final Development Footprint
- Watercourses
- Road

**Threatened Ecological Communities (BC Act)**

- White Box – Yellow Box – Blakely’s Red Gum Grassy Woodland and Derived Native Grassland CEEC (BC Act)

**Threatened Ecological Communities (BC Act & EPBC Act)**

- White Box – Yellow Box – Blakely’s Red Gum Grassy Woodland and Derived Native Grassland CEEC (BC Act) /
- White Box - Yellow Box - Blakely’s Red Gum Grassy Woodlands and Derived Native Grasslands CEEC (EPBC Act)



**APPENDIX C.p**

**Threatened Vegetation Communities in the Final Development Footprint**

676000

D:\UMWELT (AUSTRALIA) PTY LTD\4107 - 03 SRV\FIGURES\_R21\4107\_092\_DO\_TEC5.MXD 24/10/2023 6:18:21 PM



6176000

6175000

GDA 1994 MGA Zone 55

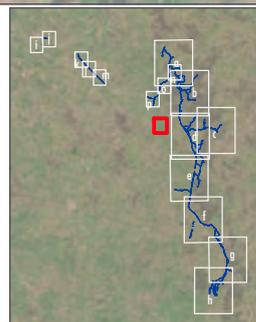
Scale 1:10000 at A4

**Legend**

- Watercourses
- Road

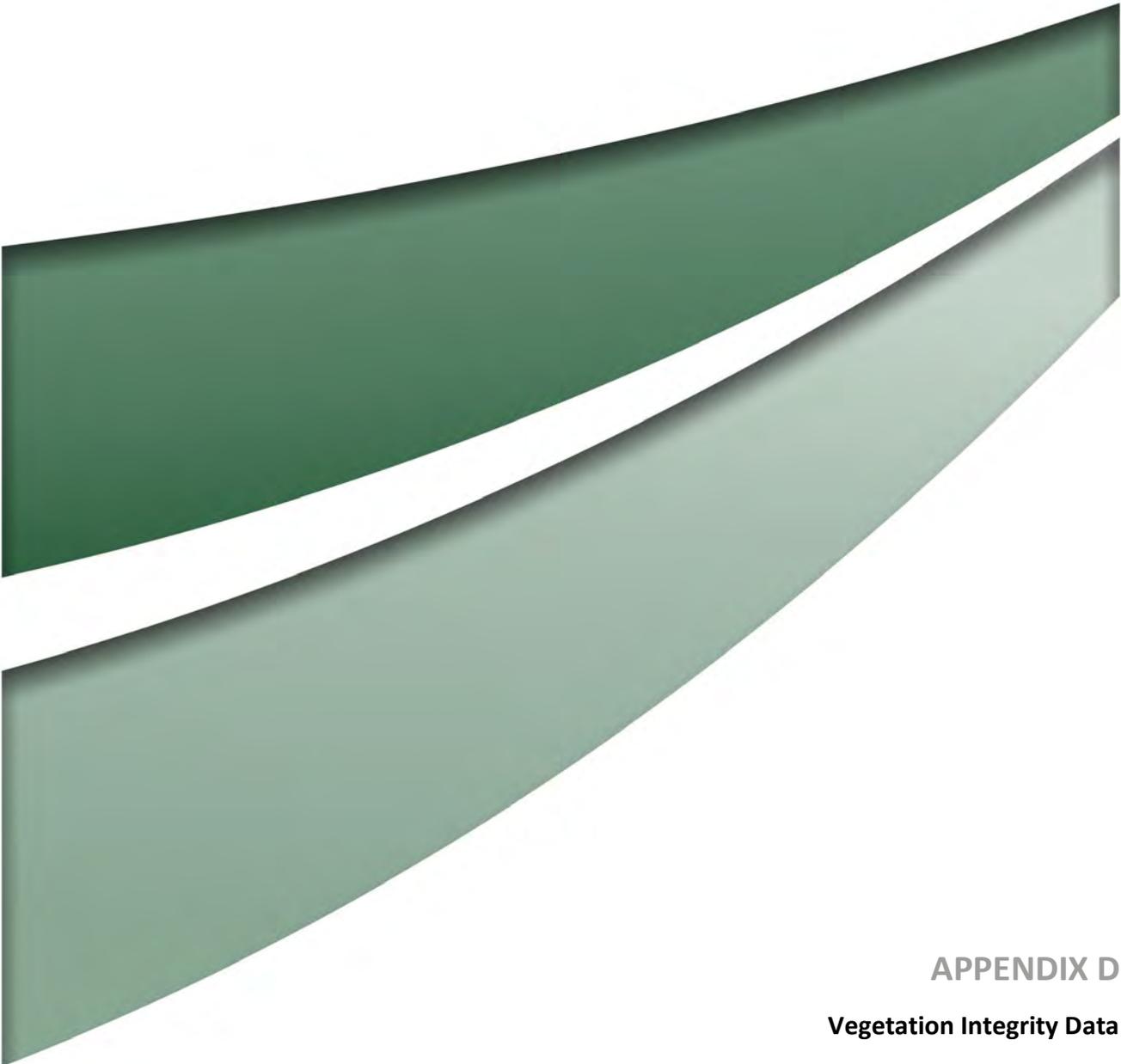
**Threatened Ecological Communities (BC Act)**

- White Box – Yellow Box – Blakely’s Red Gum Grassy Woodland and Derived Native Grassland CEEC (BC Act)



**APPENDIX C.q**

**Threatened Vegetation Communities in the Final Development Footprint**



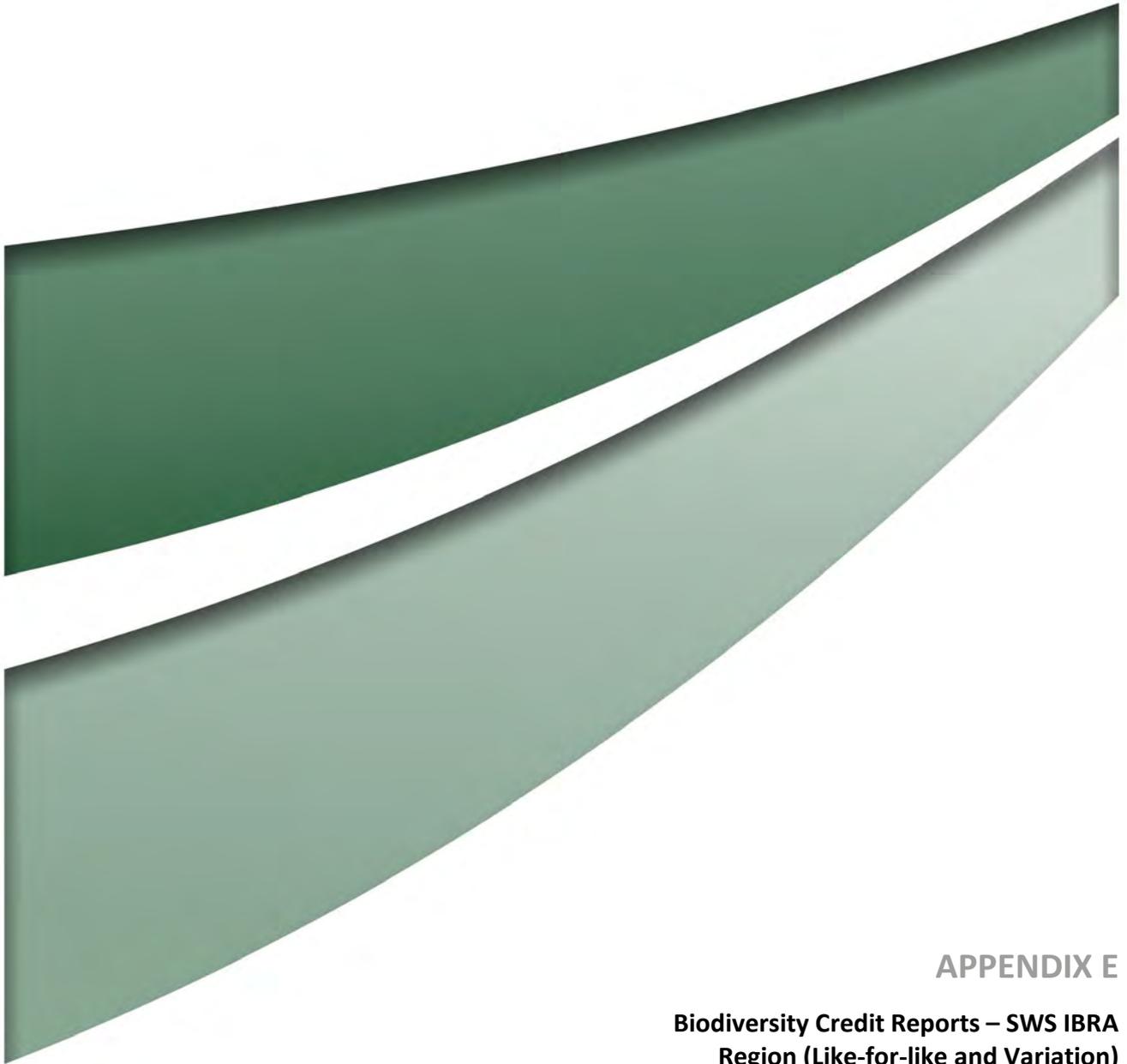
**APPENDIX D**  
**Vegetation Integrity Data**

SWS IBRA																															
plot	pct	area	patches	conditionclass	zone	easting	northing	bearing	compT ree	compS hrub	comp Grass	comp Forbs	compF erns	comp Other	struc Tree	strucS hrub	struc Grass	strucF orbs	struc Ferns	strucO ther	fun Large Trees	fun Hollow trees	fun Litter Cover	funLen Fallen Logs	fun Tree Stem 5to9	fun Tree Stem 10to19	fun Tree Stem 20to29	fun Tree Stem 30to49	fun Tree Stem 50to79	fun Tree Regen	fun High Threat Exotic
4107Jan03	289	0.48	101	ModerateGood	55	677337	6182259	20	4	5	5	1	0	2	45.5	21	33	0	0	1.5	6	1	80.6	59	1	1	1	1	1	1	0
33	335	2.81	101	ModerateGood	55	676511	6185146	180	0	0	8	2	0	0	0	0	48.6	1	0	0	0	0	78	8	0	0	0	0	0	0	5.7
35	335	2.81	101	ModerateGood	55	680413	6173303	300	0	0	4	0	0	0	0	0	90.4	0	0	0	0	0	40	0	0	0	0	0	0	0	1.4
4107Feb02	335	2.81	101	ModerateGood	55	680381	6162996	280	0	0	8	0	0	0	0	0	16.5	0	0	0	0	0	97	1	0	0	0	0	0	0	1.7
Mod2_P2	335	2.81	101	ModerateGood	55	678950	6178149	157	0	0	5	2	0	0	0	0	83.7	0.9	0	0	0	0	5	38	0	0	0	0	0	0	7
1	350	4.83	101	Moderate	55	685138	6153110	190	2	5	8	12	0	0	15	35	79	13	0	0	1	1	9	26	1	1	0	1	1	1	2
15	350	4.83	101	Moderate	55	685682	6157941	180	2	1	5	3	0	1	30	1	9	1.2	0	5	1	1	82	144	1	1	1	1	1	1	0
6	350	4.83	101	Moderate	55	680523	6166010	195	3	0	4	1	0	0	30.1	0	10.7	0.2	0	0	1	0	48	10	0	1	1	1	1	1	5
31	350	4.83	101	Moderate	55	681050	6168809	250	3	0	13	0	0	0	32	0	88.2	0	0	0	3	4	42	48	0	0	0	1	1	1	0.4
43	350	4.83	101	Moderate	55	680670	6166008	45	3	0	7	3	0	1	45	0	12.5	0.3	0	1	2	3	74	70	1	1	1	0	1	1	1
DMRP1	350	4.83	101	Moderate	55	685426	6156413	160	1	1	9	9	0	0	65	0.8	5.7	1.8	0	0	4	4	88	33	1	1	1	1	1	1	0.3
P03	350	4.83	101	Moderate	55	675609	6175903	130	3	0	2	0	0	1	30	0	2	0	0	1	2	0	70.8	6	1	1	1	1	1	1	3
Mod2_P3	350	4.83	101	Moderate	55	679030	6177443	120	3	3	6	3	1	1	30.1	2.1	22	3.6	0.6	5	6	1	17	57	1	1	1	1	1	1	1.5
11	350	8.46	101	DNG	55	683860	6150622	180	0	0	10	4	0	0	0	0	49	5.2	0	0	0	0	23	0	0	0	0	0	0	1	4.4
32	350	8.46	101	DNG	55	679998	6168665	260	0	0	7	1	0	0	0	0	71	1	0	0	0	0	93.8	0	0	0	0	0	0	1	10.4
DMRP3	350	8.46	101	DNG	55	680787	6163358	180	1	2	8	9	0	2	0.1	0.4	72.4	1	0	0.2	0	0	2.6	0	0	0	0	0	0	1	0.2
4107Jan02	350	8.46	101	DNG	55	665473	6183884	300	1	0	7	3	1	3	1	0	44.9	3.3	1	0.03	0	0	3.4	1	0	0	1	0	0	1	5.01
4107Feb03	350	8.46	101	DNG	55	679126	6165854	109	0	0	5	0	0	0	0	0	5.5	0	0	0	0	0	73.6	0	0	0	0	0	0	0	0.1
16	351	27.3	101	ModerateGood_Remnant	55	684963	6158479	180	5	7	7	3	0	1	34.5	11.2	31.2	5.6	0	2	0	0	58	119	1	1	1	1	0	1	0
20	351	27.3	101	ModerateGood_Remnant	55	682300	6162751	180	4	5	5	7	0	2	55.4	35.8	10.4	5	0	3	0	3	25	246	1	1	1	1	0	1	0
23	351	27.3	101	ModerateGood_Remnant	55	681953	6170713	225	5	3	3	2	0	1	50.4	6	45	3.4	0	0.4	0	10	80.4	207	1	1	1	1	0	1	0
26	351	27.3	101	ModerateGood_Remnant	55	381032	6178037	190	2	8	5	5	0	0	60	11.3	27.6	3.2	0	0	0	3	78	29.5	1	1	1	1	0	1	0
8	351	27.3	101	ModerateGood_Remnant	55	676372	6185514	190	4	0	6	1	0	0	30	0	26.3	0.1	0	0	4	8	41	154	0	0	1	1	1	1	0.5
13	351	27.3	101	ModerateGood_Remnant	55	684405	6151972	180	4	5	7	8	0	1	42	12.4	33.4	10.3	0	5	8	2	24	49	1	1	1	1	1	1	0
42	351	27.3	101	ModerateGood_Remnant	55	680742	6167093	130	2	2	5	2	0	0	40	0.7	5.1	0.2	0	0	2	2	87	54	1	1	1	1	0	1	0
J3	351	27.3	101	ModerateGood_Remnant	55	678106	6181384	13	1	7	12	8	1	1	35	38.5	23.5	1.2	0.5	0.1	1	1	39	147	0	1	0	1	1	0	0
Mod2_P9	351	27.3	101	ModerateGood_Remnant	55	685555	6155291	48	4	3	7	6	0	1	38	1.3	38.1	3.7	0	0.3	6	5	48	134	1	1	1	1	1	0	0.5
21	351	95.3	101	DNG	55	681742	6166819	180	1	0	4	1	0	0	0.5	0	31.4	1	0	0	0	0	84	92	0	0	0	0	0	1	10
30	351	95.3	101	DNG	55	682001	6169793	320	0	1	6	2	0	0	0	1	36.8	0.8	0	0	0	0	2	0	0	0	0	0	0	1	0
12	351	95.3	101	DNG	55	684413	6151319	180	0	1	9	4	0	0	0	0.8	54.8	10.1	0	0	0	0	14.6	0	0	0	0	0	0	1	1
14	351	95.3	101	DNG	55	683582	6152388	180	0	0	6	4	0	0	0	0	50	1.6	0	0	0	1	29	73	0	0	0	0	0	1	25.4
DMRP2	351	95.3	101	DNG	55	683270	6160479	180	0	1	10	1	0	0	0	0.6	61	0.3	0	0	0	0	6	0	0	0	0	0	0	1	0.2
4107Feb04	351	95.3	101	DNG	55	681419	6174987	333	0	0	11	2	0	0	0	0	48.5	0.2	0	0	0	0	85	2	0	0	0	0	0	1	0
J1	351	95.3	101	DNG	55	676329	6186659	340	0	0	8	1	1	1	0	0	77.6	0.5	0.1	0.1	0	0	1	0	0	0	0	0	0	0	0.2
J2	351	95.3	101	DNG	55	677818	6184525	202	0	1	8	2	1	0	0	0.3	62.4	0.2	1	0	0	0	0	0	0	0	0	0	0	0	1
J7	351	95.3	101	DNG	55	684124	6159902	136	0	1	9	1	0	0	0	0.2	90.1	0.1	0	0	0	0	0	2.4	0	0	0	0	0	0	0.6
J8	351	95.3	101	DNG	55	686441	6154120	270	0	2	8	4	0	0	0	0	56.3	0.7	0	0	0	0	2	0	0	0	0	0	0	0	0.2
Mod2_P1	351	95.3	101	DNG	55	679007	6178474	17	0	4	5	3	1	0	0	1.4	41.5	1.9	0.5	0	0	0	8	0	0	0	0	0	0	0	15.2
Mod2_P5	351	95.3	101	DNG	55	681723	6168408	117	0	0	3	1	0	0	0	0	60	0.4	0	0	0	0	3	0	0	0	1	0	0	0	7
10	351	2.99	101	ModerateGood_Acacia	55	682222	6173120	225	1	6	7	8	1	1	20	16.1	80.8	1.3	0.3	0.1	0	0	14.4	21	0	0	0	0	0	1	0
24	351	2.99	101	ModerateGood_Acacia	55	681468	6171179	180	1	6	8	4	1	1	25	18.3	40.4	2.2	0.4	0.5	1	3	35	45	1	1	1	1	1	1	0
36	351	2.99	101	ModerateGood_Acacia	55	685218	6153457	180	1	2	4	0	1	0	45	10.4	35	0	0.4	0	0	0	48.2	8	1	1	1	0	0	1	0
J4	351	2.99	101	ModerateGood_Acacia	55	682252	6170078	330	1	4	7	4	1	1	6	7.5	76.8	0.6	0.2	0.3	0	0	25	0	1	1	1	0	0	1	0.2
Mod2_P7	351	2.99	101	ModerateGood_Acacia	55	681323	6170998	205	3	4	6	7	1	1	14.1	1.1	70.4	16.5	0.1	0.5	0	0	18.6	175	1	1	1	1	0	0	0
18	351	37.6	101	Sifton	55	686146	6156121	355	1	1	4	0	0	0	1	30	21.4	0	0	0	0	15.8	37	0	0	0	0	0	0	0	2.4
28	351	37.6	101	Sifton	55	678940	6180213	175	2	4	6	3	0	0	11	69	4.3	0.3	0	0	0	0	41	0.5	0	0	0	0	0	0	0
29	351	37.6	101	Sifton	55	680685	6181271	100	0	5	7	1	0	1	0	65.8	18.6	0.1	0	0.1	0	0	41	9	0	0	0	0	0	0	0
34	351	37.6	101	Sifton	55	683963	6173916	230	0	7	6	3	1	0	0	72.8	38.8	1.4	3	0	0	0	10	0	0	0	0	0	0	0	0
4107Feb01	351	37.6	101	Sifton	55	680538	6175721	21	0	1	8	1	0	0	0	80	1.2	0.1	0	0	0	0	82.4	32	0	0	0	0	0	0	0.2
9	351	0.83	101	Argyle	55	682337	6175435	195	3	4	4	3	1	1	25.1	1.3	41.5	0.4	0.1	0.5	2	0	41	25	1	1	1	0	1	1	0

4107Jan01	351	0.83	101	Argyle	55	682927	6159688	137	6	4	8	2	0	1	37	5.02	14.3	0.02	0	0.8	11	6	69	131	0	1	1	1	1	1	1	0
7	351	57.8	101	Exotic	55	680526	6166316	195	0	0	1	1	0	0	0	0	0.3	0.2	0	0	0	0	0.6	0	0	0	0	0	0	0	1	5.2
5	351	57.8	101	Exotic	55	681771.7	6161720	355	0	0	1	2	0	0	0	0	0.2	0.3	0	0	0	0	2.4	0	0	0	0	0	0	0	1	0
P01	351	57.8	101	Exotic	55	663308	6186806	296	1	0	4	2	0	0	3	0	11	2	0	0	0	0	12	0	0	1	1	1	0	1	5	
P02	351	57.8	101	Exotic	55	660150	6187820	90	0	0	3	5	0	0	0	0	3	5	0	0	0	0	10	0	0	0	0	0	0	0	1	12
P04	351	57.8	101	Exotic	55	674992	6177103	151	1	1	3	0	0	0	25	3	4	0	0	0	7	0	60	7	1	1	0	1	1	1	14	
J5	351	57.8	101	Exotic	55	681498	6166059	290	0	0	7	0	0	0	0	0	1.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
J6	351	57.8	101	Exotic	55	684463	6159222	265	0	1	6	0	0	0	0	0.1	28.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Mod2_P4	351	57.8	101	Exotic	55	678716	6177039	177	0	0	4	1	0	0	0	0	6.5	0.1	0	0	0	0	1.8	0	0	0	0	0	0	0	0	
Mod2_P6	351	57.8	101	Exotic	55	684221	6159164	254	0	0	1	0	0	0	0	0	4	0	0	0	0	0	1.6	0	0	0	0	0	0	0	1	
Mod2_P8	351	57.8	101	Exotic	55	684090	6152672	139	0	0	0	0	0	0	0	0	0	0	0	0	0	13	0	0	0	0	0	0	0	0	0	
4107D_001	351	27.3	101	ModerateGood	55	681064.1	6171137	149	1	0	3	4	0	0	0.1	0	2.2	0.4	0	0	0	0	52.8	145	0	0	0	0	0	1	0	
4107D_002	351	27.3	101	ModerateGood	55	681212.7	6170580	333	1	0	3	1	1	0	0.1	0	85.2	0.1	0.1	0	0	0	5.6	0	0	0	0	0	0	0	0	
4107D_009	350	4.83	101	ModerateGood	55	680638.6	6166983	353	2	0	7	4	0	0	0.2	0	12.2	1.3	0	0	0	0	19	29	0	0	0	0	0	1	0.1	
4107D_010	350	4.83	101	ModerateGood	55	680531.3	6166385	178	1	0	2	0	0	0	0.1	0	2	0	0	0	0	0	8.8	2	0	0	0	0	0	1	2	







## APPENDIX E

**Biodiversity Credit Reports – SWS IBRA  
Region (Like-for-like and Variation)**

## Proposal Details

Assessment Id 00010359/BAAS17068/18/00012902	Proposal Name Rye Park SWS IBRA - Mod 2 Finalisation	BAM data last updated * 22/06/2023
Assessor Name Bill Wallach	Report Created 20/10/2023	BAM Data version * 61
Assessor Number BAAS17068	BAM Case Status Finalised	Date Finalised 20/10/2023
Assessment Revision 17	Assessment Type Major Projects	

\* Disclaimer: BAM data last updated may indicate either complete or partial update of the BAM calculator database. BAM calculator database may not be completely aligned with Bionet.

## Ecosystem credits for plant communities types (PCT), ecological communities & threatened species habitat

Zone	Vegetation zone name	TEC name	Current Vegetation integrity score	Change in Vegetation integrity (loss / gain)	Area (ha)	Sensitivity to loss (Justification)	Species sensitivity to gain class	BC Act Listing status	EPBC Act listing status	Biodiversity risk weighting	Potential SAI	Ecosystem credits
<b>Brittle Gum - Broad-leaved Peppermint - Red Stringybark open forest in the north-western part (Yass to Orange) of the South Eastern Highlands Bioregion</b>												
4	351_DNG	Not a TEC	19.2	19.2	95.3	PCT Cleared - 60%	High Sensitivity to Gain			1.75		799

## BAM Credit Summary Report

5	351_Mode rateGood_ Acacia	Not a TEC	49	49.0	3	PCT Cleared - 60%	High Sensitivity to Gain			1.75		64
6	351_Sifton	Not a TEC	21.6	21.6	37.6	PCT Cleared - 60%	High Sensitivity to Gain			1.75		354
7	351_Argyl e	Not a TEC	64.1	64.1	0.83	PCT Cleared - 60%	High Sensitivity to Gain			1.75		23
8	351_Exotic	Not a TEC	6.6	6.6	57.8	PCT Cleared - 60%	High Sensitivity to Gain			1.75		0
10	351_Mode rateGood_ Remnant	Not a TEC	75.9	74.3	27.3	PCT Cleared - 60%	High Sensitivity to Gain			1.75		886
										<b>Subtot al</b>	<b>2126</b>	

**Candlebark - Blakely's Red Gum - Long-leaved Box grassy woodland in the Rye Park to Yass region of the NSW South Western Slopes Bioregion and South Eastern Highland Bioregion**

3	350_DNG	White Box - Yellow Box - Blakely's Red Gum Grassy Woodland and Derived Native Grassland in the NSW North Coast, New England Tableland, Nandewar, Brigalow Belt South, Sydney Basin, South Eastern Highla	33.9	33.9	8.5	Population size	High Sensitivity to Gain	Critically Endangered Ecological Community	Not Listed	2.50	True	179
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9	350_Mode rate	White Box - Yellow Box - Blakely's Red Gum Grassy Woodland and Derived Native Grassland in the NSW North Coast, New England Tableland, Nandewar, Brigalow Belt South, Sydney Basin, South Eastern Highla	75	72.3	4.8	Population size	High Sensitivity to Gain	Critically Endangered Ecological Community	Not Listed	2.50	True	218
										<b>Subtotal</b>	<b>397</b>	
<b>Mugga Ironbark - Inland Scribbly Gum - Red Box shrub/grass open forest on hills in the upper slopes sub-region of the NSW South Western Slopes Bioregion</b>												
1	289_Mode rateGood	Not a TEC	74.2	74.2	0.48	PCT Cleared - 60%	High Sensitivity to Gain			1.75		16
										<b>Subtotal</b>	<b>16</b>	

**Tussock grass - sedgeland fen - rushland - reedland wetland in impeded creeks in valleys in the upper slopes sub-region of the NSW South Western Slopes Bioregion**

2	335_Mode rateGood	Not a TEC	58.2	58.2	2.8	PCT Cleared - 83%	High Sensitivity to Gain		2.00		82
										<b>Subtotal</b>	<b>82</b>
										<b>Total</b>	<b>2621</b>

## Species credits for threatened species

Vegetation zone name	Habitat condition (Vegetation Integrity)	Change in habitat condition	Area (ha)/Count (no. individuals)	Sensitivity to loss (Justification)	Sensitivity to gain (Justification)	BC Act Listing status	EPBC Act listing status	Potential SAIL	Species credits	
<b><i>Delma impar / Striped Legless Lizard ( Fauna )</i></b>										
351_DNG	19.2	19.2	37.6			Vulnerable	Vulnerable	False	270	
									<b>Subtotal</b>	<b>270</b>
<b><i>Petaurus norfolcensis / Squirrel Glider ( Fauna )</i></b>										
351_ModerateGood_Remnant	74.3	74.3	27.3			Vulnerable	Not Listed	False	1013	
289_ModerateGood	74.2	74.2	0.48			Vulnerable	Not Listed	False	18	
350_Moderate	72.3	72.3	4.8			Vulnerable	Not Listed	False	175	
351_Argyle	64.1	64.1	0.83			Vulnerable	Not Listed	False	27	
									<b>Subtotal</b>	<b>1233</b>

<b><i>Polytelis swainsonii / Superb Parrot ( Fauna )</i></b>									
350_Moderate	72.3	72.3	4.8			Vulnerable	Vulnerable	False	175
								<b>Subtotal</b>	<b>175</b>
<b><i>Synemon plana / Golden Sun Moth ( Fauna )</i></b>									
350_DNG	33.9	33.9	1.5			Vulnerable	Vulnerable	False	19
351_DNG	19.2	19.2	42.2			Vulnerable	Vulnerable	False	303
								<b>Subtotal</b>	<b>322</b>

# BAM Biodiversity Credit Report (Like for like)

## Proposal Details

Assessment Id	Proposal Name	BAM data last updated *
00010359/BAAS17068/18/00012902	Rye Park SWS IBRA - Mod 2 Finalisation	22/06/2023
Assessor Name	Assessor Number	BAM Data version *
Bill Wallach	BAAS17068	61
Proponent Names	Report Created	BAM Case Status
Tilt Renewables	20/10/2023	Finalised
Assessment Revision	Assessment Type	Date Finalised
17	Major Projects	20/10/2023

\* Disclaimer: BAM data last updated may indicate either complete or partial update of the BAM calculator database. BAM calculator database may not be completely aligned with Bionet.

## Potential Serious and Irreversible Impacts

Name of threatened ecological community	Listing status	Name of Plant Community Type/ID
White Box - Yellow Box - Blakely's Red Gum Grassy Woodland and Derived Native Grassland in the NSW North Coast, New England Tableland, Nandewar, Brigalow Belt South, Sydney Basin, South Eastern Highla	Critically Endangered Ecological Community	350-Candlebark - Blakely's Red Gum - Long-leaved Box grassy woodland in the Rye Park to Yass region of the NSW South Western Slopes Bioregion and South Eastern Highland Bioregion
Species		



# BAM Biodiversity Credit Report (Like for like)

Nil

## Additional Information for Approval

PCT Outside Ibra Added

None added

PCTs With Customized Benchmarks

PCT

No Changes

Predicted Threatened Species Not On Site

Name

No Changes

## Ecosystem Credit Summary (Number and class of biodiversity credits to be retired)



## BAM Biodiversity Credit Report (Like for like)

Name of Plant Community Type/ID	Name of threatened ecological community	Area of impact	HBT Cr	No HBT Cr	Total credits to be retired
289-Mugga Ironbark - Inland Scribbly Gum - Red Box shrub/grass open forest on hills in the upper slopes sub-region of the NSW South Western Slopes Bioregion	Not a TEC	0.5	16	0	16
335-Tussock grass - sedgeland fen - rushland - reedland wetland in impeded creeks in valleys in the upper slopes sub-region of the NSW South Western Slopes Bioregion	Not a TEC	2.8	0	82	82
350-Candlebark - Blakely's Red Gum - Long-leaved Box grassy woodland in the Rye Park to Yass region of the NSW South Western Slopes Bioregion and South Eastern Highland Bioregion	White Box - Yellow Box - Blakely's Red Gum Grassy Woodland and Derived Native Grassland in the NSW North Coast, New England Tableland, Nandewar, Brigalow Belt South, Sydney Basin, South Eastern Highla	13.3	218	179	397
351-Brittle Gum - Broad-leaved Peppermint - Red Stringybark open forest in the north-western part (Yass to Orange) of the South Eastern Highlands Bioregion	Not a TEC	221.8	1772	354	2126

289-Mugga Ironbark - Inland Scribbly Gum - Red Box shrub/grass open forest on hills in the upper slopes sub-region of the NSW South Western Slopes Bioregion	Like-for-like credit retirement options					
	Class	Trading group	Zone	HBT	Credits	IBRA region

## BAM Biodiversity Credit Report (Like for like)

	Upper Riverina Dry Sclerophyll Forests This includes PCT's: 269, 285, 289, 290, 298, 302, 304, 314, 338, 340, 342, 353, 1088, 1094, 1095, 3533, 3534, 3535, 3536, 3537, 3540, 3541, 3542, 4152	Upper Riverina Dry Sclerophyll Forests >=50% and <70%	289_Moderate Good	Yes	16 Inland Slopes, Bogan-Macquarie, Bondo, Capertee Uplands, Capertee Valley, Crookwell, Hill End, Kerrabee, Lower Slopes, Murray Fans, Murrumbateman, Orange, Pilliga, Talbragar Valley and Wollemi. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.	
<b>335-Tussock grass - sedgeland fen - rushland - reedland wetland in impeded creeks in valleys in the upper slopes sub-region of the NSW South Western Slopes Bioregion</b>						
<b>Like-for-like credit retirement options</b>						
	Class Inland Floodplain Swamps This includes PCT's: 66, 204, 205, 335, 360, 447, 465, 1291	Trading group Inland Floodplain Swamps >=70% and <90%	Zone 335_Moderate Good	HBT No	Credits 82 Inland Slopes, Bogan-Macquarie, Bondo, Capertee Uplands, Capertee Valley, Crookwell, Hill End, Kerrabee, Lower Slopes, Murray Fans, Murrumbateman, Orange, Pilliga, Talbragar Valley and Wollemi. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.	

## BAM Biodiversity Credit Report (Like for like)

<p><b>335-Tussock grass - sedgeland fen - rushland - reedland wetland in impeded creeks in valleys in the upper slopes sub-region of the NSW South Western Slopes Bioregion</b></p>						
<p><b>350-Candlebark - Blakely's Red Gum - Long-leaved Box grassy woodland in the Rye Park to Yass region of the NSW South Western Slopes Bioregion and South Eastern Highland Bioregion</b></p>	<p><b>Like-for-like credit retirement options</b></p>					
	Name of offset trading group	Trading group	Zone	HBT	Credits	IBRA region
	White Box - Yellow Box - Blakely's Red Gum Grassy Woodland and Derived Native Grassland in the NSW North Coast, New England Tableland, Nandewar, Brigalow Belt South, Sydney Basin, South Eastern Highla	-	350_DNG	No	179	Inland Slopes, Bogan-Macquarie, Bondo, Capertee Uplands, Capertee Valley, Crookwell, Hill End, Kerrabee, Lower Slopes, Murray Fans, Murrumbateman, Orange, Pilliga, Talbragar Valley and Wollemi.  or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
	This includes PCT's: 74, 75, 83, 250, 266, 267, 268, 270, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 286, 298, 302, 312, 341, 342, 347,					



## BAM Biodiversity Credit Report (Like for like)

<p>350, 352, 356, 367, 381, 382, 395, 401, 403, 421, 433, 434, 435, 436, 437, 451, 483, 484, 488, 492, 496, 508, 509, 510, 511, 528, 538, 544, 563, 567, 571, 589, 590, 597, 599, 618, 619, 622, 633, 654, 702, 703, 704, 705, 710, 711, 796, 797, 799, 847, 851, 921, 1099, 1303, 1304, 1307, 1324, 1329, 1330, 1332, 1383, 1606, 1608, 1611, 1691, 1693, 1695, 1698, 3314, 3359, 3363, 3373, 3376, 3387, 3388, 3394, 3395, 3396, 3397, 3398, 3399, 3406, 3415, 3533, 4147, 4149, 4150</p>					
<p>White Box - Yellow Box - Blakely's Red Gum Grassy Woodland and Derived Native Grassland in the NSW North Coast, New England Tableland,</p>	<p>-</p>	<p>350_Moderate</p>	<p>Yes</p>	<p>218</p>	<p>Inland Slopes, Bogan-Macquarie, Bondo, Capertee Uplands, Capertee Valley, Crookwell, Hill End, Kerrabee, Lower Slopes, Murray Fans, Murrumbateman, Orange, Pilliga, Talbragar Valley and Wollemi. or</p>

## BAM Biodiversity Credit Report (Like for like)

	<p>Nandewar, Brigalow Belt South, Sydney Basin, South Eastern Highla</p> <p>This includes PCT's:</p> <p>74, 75, 83, 250, 266, 267, 268, 270, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 286, 298, 302, 312, 341, 342, 347, 350, 352, 356, 367, 381, 382, 395, 401, 403, 421, 433, 434, 435, 436, 437, 451, 483, 484, 488, 492, 496, 508, 509, 510, 511, 528, 538, 544, 563, 567, 571, 589, 590, 597, 599, 618, 619, 622, 633, 654, 702, 703, 704, 705, 710, 711, 796, 797, 799, 847, 851, 921, 1099, 1303, 1304, 1307, 1324, 1329, 1330, 1332, 1383, 1606, 1608, 1611, 1691, 1693, 1695, 1698, 3314, 3359, 3363, 3373, 3376, 3387, 3388, 3394, 3395, 3396, 3397, 3398, 3399, 3406,</p>				<p>Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.</p>
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## BAM Biodiversity Credit Report (Like for like)

	3415, 3533, 4147, 4149, 4150					
<b>351-Brittle Gum - Broad-leaved Peppermint - Red Stringybark open forest in the north-western part (Yass to Orange) of the South Eastern Highlands Bioregion</b>	<b>Like-for-like credit retirement options</b>					
	Class	Trading group	Zone	HBT	Credits	IBRA region
	Southern Tableland Dry Sclerophyll Forests This includes PCT's: 299, 344, 349, 351, 352, 653, 701, 727, 730, 957, 1093, 1177, 3730, 3732, 3734, 3735, 3737, 3738, 3741, 3743, 3744, 3746, 3747	Southern Tableland Dry Sclerophyll Forests >=50% and <70%	351_DNG	Yes	799	Inland Slopes, Bogan-Macquarie, Bondo, Capertee Uplands, Capertee Valley, Crookwell, Hill End, Kerrabee, Lower Slopes, Murray Fans, Murrumbateman, Orange, Pilliga, Talbragar Valley and Wollemi. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
Southern Tableland Dry Sclerophyll Forests This includes PCT's: 299, 344, 349, 351, 352, 653, 701, 727, 730, 957, 1093, 1177, 3730, 3732, 3734, 3735, 3737, 3738, 3741, 3743, 3744, 3746, 3747	Southern Tableland Dry Sclerophyll Forests >=50% and <70%	351_Moderate Good_Acacia	Yes	64	Inland Slopes, Bogan-Macquarie, Bondo, Capertee Uplands, Capertee Valley, Crookwell, Hill End, Kerrabee, Lower Slopes, Murray Fans, Murrumbateman, Orange, Pilliga, Talbragar Valley and Wollemi. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.	

## BAM Biodiversity Credit Report (Like for like)

	<p>Southern Tableland Dry Sclerophyll Forests This includes PCT's: 299, 344, 349, 351, 352, 653, 701, 727, 730, 957, 1093, 1177, 3730, 3732, 3734, 3735, 3737, 3738, 3741, 3743, 3744, 3746, 3747</p>	<p>Southern Tableland Dry Sclerophyll Forests &gt;=50% and &lt;70%</p>	351_Sifton	No	354	<p>Inland Slopes, Bogan-Macquarie, Bondo, Capertee Uplands, Capertee Valley, Crookwell, Hill End, Kerrabee, Lower Slopes, Murray Fans, Murrumbateman, Orange, Pilliga, Talbragar Valley and Wollemi. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.</p>
	<p>Southern Tableland Dry Sclerophyll Forests This includes PCT's: 299, 344, 349, 351, 352, 653, 701, 727, 730, 957, 1093, 1177, 3730, 3732, 3734, 3735, 3737, 3738, 3741, 3743, 3744, 3746, 3747</p>	<p>Southern Tableland Dry Sclerophyll Forests &gt;=50% and &lt;70%</p>	351_Argyle	Yes	23	<p>Inland Slopes, Bogan-Macquarie, Bondo, Capertee Uplands, Capertee Valley, Crookwell, Hill End, Kerrabee, Lower Slopes, Murray Fans, Murrumbateman, Orange, Pilliga, Talbragar Valley and Wollemi. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.</p>

## BAM Biodiversity Credit Report (Like for like)

	<p>Southern Tableland Dry Sclerophyll Forests This includes PCT's: 299, 344, 349, 351, 352, 653, 701, 727, 730, 957, 1093, 1177, 3730, 3732, 3734, 3735, 3737, 3738, 3741, 3743, 3744, 3746, 3747</p>	<p>Southern Tableland Dry Sclerophyll Forests &gt;=50% and &lt;70%</p>	351_Exotic	No	0	<p>Inland Slopes, Bogan-Macquarie, Bondo, Capertee Uplands, Capertee Valley, Crookwell, Hill End, Kerrabee, Lower Slopes, Murray Fans, Murrumbateman, Orange, Pilliga, Talbragar Valley and Wollemi. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.</p>
	<p>Southern Tableland Dry Sclerophyll Forests This includes PCT's: 299, 344, 349, 351, 352, 653, 701, 727, 730, 957, 1093, 1177, 3730, 3732, 3734, 3735, 3737, 3738, 3741, 3743, 3744, 3746, 3747</p>	<p>Southern Tableland Dry Sclerophyll Forests &gt;=50% and &lt;70%</p>	351_Moderate Good_Remnant	Yes	886	<p>Inland Slopes, Bogan-Macquarie, Bondo, Capertee Uplands, Capertee Valley, Crookwell, Hill End, Kerrabee, Lower Slopes, Murray Fans, Murrumbateman, Orange, Pilliga, Talbragar Valley and Wollemi. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.</p>

### Species Credit Summary

## BAM Biodiversity Credit Report (Like for like)

Species	Vegetation Zone/s	Area / Count	Credits
<b>Delma impar</b> / Striped Legless Lizard	<b>351_DNG</b>	37.6	270.00
<b>Petaurus norfolcensis</b> / Squirrel Glider	<b>351_ModerateGood_Remnant, 289_ModerateGood, 350_Moderate, 351_Argyle</b>	33.4	1233.00
<b>Polytelis swainsonii</b> / Superb Parrot	<b>350_Moderate</b>	4.8	175.00
<b>Synemon plana</b> / Golden Sun Moth	<b>350_DNG, 351_DNG</b>	43.7	322.00

### Credit Retirement Options

Like-for-like credit retirement options

<b>Delma impar</b> / Striped Legless Lizard	Spp	IBRA subregion
	<b>Delma impar</b> / Striped Legless Lizard	Any in NSW
<b>Petaurus norfolcensis</b> / Squirrel Glider	Spp	IBRA subregion
	<b>Petaurus norfolcensis</b> / Squirrel Glider	Any in NSW
<b>Polytelis swainsonii</b> / Superb Parrot	Spp	IBRA subregion
	<b>Polytelis swainsonii</b> / Superb Parrot	Any in NSW
<b>Synemon plana</b> / Golden Sun Moth	Spp	IBRA subregion
	<b>Synemon plana</b> / Golden Sun Moth	Any in NSW

## Proposal Details

<b>Assessment Id</b>	Proposal Name	BAM data last updated *
00010359/BAAS17068/18/00012902	Rye Park SWS IBRA - Mod 2 Finalisation	22/06/2023
Assessor Name	Assessor Number	BAM Data version *
Bill Wallach	BAAS17068	61
Proponent Name(s)	Report Created	BAM Case Status
Tilt Renewables	20/10/2023	Finalised
Assessment Revision	Assessment Type	Date Finalised
17	Major Projects	20/10/2023

\* Disclaimer: BAM data last updated may indicate either complete or partial update of the BAM calculator database. BAM calculator database may not be completely aligned with Bionet.

## Potential Serious and Irreversible Impacts

Name of threatened ecological community	Listing status	Name of Plant Community Type/ID
White Box - Yellow Box - Blakely's Red Gum Grassy Woodland and Derived Native Grassland in the NSW North Coast, New England Tableland, Nandewar, Brigalow Belt South, Sydney Basin, South Eastern Highla	Critically Endangered Ecological Community	350-Candlebark - Blakely's Red Gum - Long-leaved Box grassy woodland in the Rye Park to Yass region of the NSW South Western Slopes Bioregion and South Eastern Highland Bioregion
Species		
<b>Nil</b>		

## Additional Information for Approval

PCT Outside Ibra Added  
None added

### PCTs With Customized Benchmarks

PCT
No Changes

### Predicted Threatened Species Not On Site

Name
No Changes

### Ecosystem Credit Summary (Number and class of biodiversity credits to be retired)

Name of Plant Community Type/ID	Name of threatened ecological community	Area of impact	HBT Cr	No HBT Cr	Total credits to be retired
289-Mugga Ironbark - Inland Scribbly Gum - Red Box shrub/grass open forest on hills in the upper slopes sub-region of the NSW South Western Slopes Bioregion	Not a TEC	0.5	16	0	16.00
335-Tussock grass - sedgeland fen - rushland - reedland wetland in impeded creeks in valleys in the upper slopes sub-region of the NSW South Western Slopes Bioregion	Not a TEC	2.8	0	82	82.00
350-Candlebark - Blakely's Red Gum - Long-leaved Box grassy woodland in the Rye Park to Yass region of the NSW South Western Slopes Bioregion and South Eastern Highland Bioregion	White Box - Yellow Box - Blakely's Red Gum Grassy Woodland and Derived Native Grassland in the NSW North Coast, New England Tableland, Nandewar, Brigalow Belt South, Sydney Basin, South Eastern Highla	13.3	218	179	397.00
351-Brittle Gum - Broad-leaved Peppermint - Red Stringybark open forest in the north-western part (Yass to Orange) of the South Eastern Highlands Bioregion	Not a TEC	221.8	1772	354	2126.00

## BAM Biodiversity Credit Report (Variations)

<b>289-Mugga Ironbark - Inland Scribbly Gum - Red Box shrub/grass open forest on hills in the upper slopes sub-region of the NSW South Western Slopes Bioregion</b>	<b>Like-for-like credit retirement options</b>					
	Class	Trading group	Zone	HBT	Credits	IBRA region
	Upper Riverina Dry Sclerophyll Forests This includes PCT's: 269, 285, 289, 290, 298, 302, 304, 314, 338, 340, 342, 353, 1088, 1094, 1095, 3533, 3534, 3535, 3536, 3537, 3540, 3541, 3542, 4152	Upper Riverina Dry Sclerophyll Forests >=50% and <70%	289_ModerateGood	Yes	16	Inland Slopes, Bogan-Macquarie, Bongo, Capertee Uplands, Capertee Valley, Crookwell, Hill End, Kerrabee, Lower Slopes, Murray Fans, Murrumbateman, Orange, Pilliga, Talbragar Valley and Wollemi.  or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
<b>Variation options</b>						
Formation	Trading group	Zone	HBT	Credits	IBRA region	
Dry Sclerophyll Forests (Shrub/grass sub-formation)	Tier 3 or higher threat status	289_ModerateGood	Yes (including artificial)	16	IBRA Region: NSW South Western Slopes,  or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.	
<b>335-Tussock grass - sedgeland fen - rushland - reedland wetland in impeded creeks in valleys in the upper slopes sub-region of the NSW South Western Slopes Bioregion</b>	<b>Like-for-like credit retirement options</b>					
	Class	Trading group	Zone	HBT	Credits	IBRA region

## BAM Biodiversity Credit Report (Variations)

	Inland Floodplain Swamps This includes PCT's: 66, 204, 205, 335, 360, 447, 465, 1291	Inland Floodplain Swamps >=70% and <90%	335_ModerateGood	No	82	Inland Slopes,Bogan-Macquarie, Bondo, Capertee Uplands, Capertee Valley, Crookwell, Hill End, Kerrabee, Lower Slopes, Murray Fans, Murrumbateman, Orange, Pilliga, Talbragar Valley and Wollemi.  or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
<b>Variation options</b>						
	Formation	Trading group	Zone	HBT	Credits	IBRA region
	Freshwater Wetlands	Tier 2 or higher threat status	335_ModerateGood	No	82	IBRA Region: NSW South Western Slopes,  or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
<b>350-Candlebark - Blakely's Red Gum - Long-leaved Box grassy woodland in the Rye Park to Yass region of the NSW South Western Slopes Bioregion and South Eastern Highland Bioregion</b>	<b>Like-for-like credit retirement options</b>					
	Class	Trading group	Zone	HBT	Credits	IBRA region
	White Box - Yellow Box - Blakely's Red Gum Grassy Woodland and Derived Native Grassland in the NSW North Coast, New England Tableland, Nandewar, Brigalow Belt South, Sydney Basin, South Eastern Highla	-	350_DNG	No	179	Inland Slopes,Bogan-Macquarie, Bondo, Capertee Uplands, Capertee Valley, Crookwell, Hill End, Kerrabee, Lower Slopes, Murray Fans, Murrumbateman, Orange, Pilliga, Talbragar Valley and Wollemi.  or Any IBRA subregion that is within 100 kilometers of the outer edge of the

## BAM Biodiversity Credit Report (Variations)

	<p>This includes PCT's:  74, 75, 83, 250, 266, 267,  268, 270, 274, 275, 276,  277, 278, 279, 280, 281,  282, 283, 284, 286, 298,  302, 312, 341, 342, 347,  350, 352, 356, 367, 381,  382, 395, 401, 403, 421,  433, 434, 435, 436, 437,  451, 483, 484, 488, 492,  496, 508, 509, 510, 511,  528, 538, 544, 563, 567,  571, 589, 590, 597, 599,  618, 619, 622, 633, 654,  702, 703, 704, 705, 710,  711, 796, 797, 799, 847,  851, 921, 1099, 1303,  1304, 1307, 1324, 1329,  1330, 1332, 1383, 1606,  1608, 1611, 1691, 1693,  1695, 1698, 3314, 3359,  3363, 3373, 3376, 3387,  3388, 3394, 3395, 3396,  3397, 3398, 3399, 3406,  3415, 3533, 4147, 4149,  4150</p>					<p>impacted site.</p>
	<p>White Box - Yellow Box -  Blakely's Red Gum Grassy  Woodland and Derived  Native Grassland in the  NSW North Coast, New</p>	<p>-</p>	<p>350_Moder  ate</p>	<p>Yes</p>	<p>218</p>	<p>Inland Slopes,Bogan-Macquarie, Bondo,  Capertee Uplands, Capertee Valley,  Crookwell, Hill End, Kerrabee, Lower  Slopes, Murray Fans, Murrumbateman,  Orange, Pilliga, Talbragar Valley and</p>

## BAM Biodiversity Credit Report (Variations)

	<p>England Tableland, Nandewar, Brigalow Belt South, Sydney Basin, South Eastern Highla This includes PCT's: 74, 75, 83, 250, 266, 267, 268, 270, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 286, 298, 302, 312, 341, 342, 347, 350, 352, 356, 367, 381, 382, 395, 401, 403, 421, 433, 434, 435, 436, 437, 451, 483, 484, 488, 492, 496, 508, 509, 510, 511, 528, 538, 544, 563, 567, 571, 589, 590, 597, 599, 618, 619, 622, 633, 654, 702, 703, 704, 705, 710, 711, 796, 797, 799, 847, 851, 921, 1099, 1303, 1304, 1307, 1324, 1329, 1330, 1332, 1383, 1606, 1608, 1611, 1691, 1693, 1695, 1698, 3314, 3359, 3363, 3373, 3376, 3387, 3388, 3394, 3395, 3396, 3397, 3398, 3399, 3406, 3415, 3533, 4147, 4149, 4150</p>					<p>Wollemi. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.</p>
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## BAM Biodiversity Credit Report (Variations)

<b>351-Brittle Gum - Broad-leaved Peppermint - Red Stringybark open forest in the north-western part (Yass to Orange) of the South Eastern Highlands Bioregion</b>	<b>Like-for-like credit retirement options</b>					
	Class	Trading group	Zone	HBT	Credits	IBRA region
	Southern Tableland Dry Sclerophyll Forests This includes PCT's: 299, 344, 349, 351, 352, 653, 701, 727, 730, 957, 1093, 1177, 3730, 3732, 3734, 3735, 3737, 3738, 3741, 3743, 3744, 3746, 3747	Southern Tableland Dry Sclerophyll Forests >=50% and <70%	351_DNG	Yes	799	Inland Slopes, Bogan-Macquarie, Bondo, Capertee Uplands, Capertee Valley, Crookwell, Hill End, Kerrabee, Lower Slopes, Murray Fans, Murrumbateman, Orange, Pilliga, Talbragar Valley and Wollemi.  or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
Southern Tableland Dry Sclerophyll Forests This includes PCT's: 299, 344, 349, 351, 352, 653, 701, 727, 730, 957, 1093, 1177, 3730, 3732, 3734, 3735, 3737, 3738, 3741, 3743, 3744, 3746, 3747	Southern Tableland Dry Sclerophyll Forests >=50% and <70%	351_ModerateGood_Acacia	Yes	64	Inland Slopes, Bogan-Macquarie, Bondo, Capertee Uplands, Capertee Valley, Crookwell, Hill End, Kerrabee, Lower Slopes, Murray Fans, Murrumbateman, Orange, Pilliga, Talbragar Valley and Wollemi.  or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.	

## BAM Biodiversity Credit Report (Variations)

<p>Southern Tableland Dry Sclerophyll Forests This includes PCT's: 299, 344, 349, 351, 352, 653, 701, 727, 730, 957, 1093, 1177, 3730, 3732, 3734, 3735, 3737, 3738, 3741, 3743, 3744, 3746, 3747</p>	<p>Southern Tableland Dry Sclerophyll Forests <math>\geq 50\%</math> and <math>&lt; 70\%</math></p>	<p>351_Sifton</p>	<p>No</p>	<p>354</p>	<p>Inland Slopes, Bogan-Macquarie, Bondo, Capertee Uplands, Capertee Valley, Crookwell, Hill End, Kerrabee, Lower Slopes, Murray Fans, Murrumbateman, Orange, Pilliga, Talbragar Valley and Wollemi.  or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.</p>
<p>Southern Tableland Dry Sclerophyll Forests This includes PCT's: 299, 344, 349, 351, 352, 653, 701, 727, 730, 957, 1093, 1177, 3730, 3732, 3734, 3735, 3737, 3738, 3741, 3743, 3744, 3746, 3747</p>	<p>Southern Tableland Dry Sclerophyll Forests <math>\geq 50\%</math> and <math>&lt; 70\%</math></p>	<p>351_Argyle</p>	<p>Yes</p>	<p>23</p>	<p>Inland Slopes, Bogan-Macquarie, Bondo, Capertee Uplands, Capertee Valley, Crookwell, Hill End, Kerrabee, Lower Slopes, Murray Fans, Murrumbateman, Orange, Pilliga, Talbragar Valley and Wollemi.  or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.</p>
<p>Southern Tableland Dry Sclerophyll Forests This includes PCT's: 299, 344, 349, 351, 352, 653, 701, 727, 730, 957, 1093, 1177, 3730, 3732, 3734, 3735, 3737, 3738, 3741, 3743, 3744, 3746, 3747</p>	<p>Southern Tableland Dry Sclerophyll Forests <math>\geq 50\%</math> and <math>&lt; 70\%</math></p>	<p>351_Exotic</p>	<p>No</p>	<p>0</p>	<p>Inland Slopes, Bogan-Macquarie, Bondo, Capertee Uplands, Capertee Valley, Crookwell, Hill End, Kerrabee, Lower Slopes, Murray Fans, Murrumbateman, Orange, Pilliga, Talbragar Valley and Wollemi.  or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.</p>

## BAM Biodiversity Credit Report (Variations)

<p>Southern Tableland Dry Sclerophyll Forests This includes PCT's: 299, 344, 349, 351, 352, 653, 701, 727, 730, 957, 1093, 1177, 3730, 3732, 3734, 3735, 3737, 3738, 3741, 3743, 3744, 3746, 3747</p>	<p>Southern Tableland Dry Sclerophyll Forests &gt;=50% and &lt;70%</p>	<p>351_ModerateGood_Remnant</p>	<p>Yes</p>	<p>886</p>	<p>Inland Slopes, Bogan-Macquarie, Bondo, Capertee Uplands, Capertee Valley, Crookwell, Hill End, Kerrabee, Lower Slopes, Murray Fans, Murrumbateman, Orange, Pilliga, Talbragar Valley and Wollemi.</p> <p style="text-align: center;">or</p> <p>Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.</p>
<b>Variation options</b>					
Formation	Trading group	Zone	HBT	Credits	IBRA region
<p>Dry Sclerophyll Forests (Shrubby sub-formation)</p>	<p>Tier 3 or higher threat status</p>	<p>351_DNG</p>	<p>Yes (including artificial)</p>	<p>799</p>	<p>IBRA Region: NSW South Western Slopes,</p> <p style="text-align: center;">or</p> <p>Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.</p>
<p>Dry Sclerophyll Forests (Shrubby sub-formation)</p>	<p>Tier 3 or higher threat status</p>	<p>351_ModerateGood_Acacia</p>	<p>Yes (including artificial)</p>	<p>64</p>	<p>IBRA Region: NSW South Western Slopes,</p> <p style="text-align: center;">or</p> <p>Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.</p>

## BAM Biodiversity Credit Report (Variations)

Dry Sclerophyll Forests (Shrubby sub-formation)	Tier 3 or higher threat status	351_Sifton	No	354	IBRA Region: NSW South Western Slopes, or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
Dry Sclerophyll Forests (Shrubby sub-formation)	Tier 3 or higher threat status	351_Argyle	Yes (including artificial)	23	IBRA Region: NSW South Western Slopes, or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
Dry Sclerophyll Forests (Shrubby sub-formation)	Tier 3 or higher threat status	351_Exotic	No	0	IBRA Region: NSW South Western Slopes, or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
Dry Sclerophyll Forests (Shrubby sub-formation)	Tier 3 or higher threat status	351_ModerateGood_Rennant	Yes (including artificial)	886	IBRA Region: NSW South Western Slopes, or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.

### Species Credit Summary

Species	Vegetation Zone/s	Area / Count	Credits
<b>Delma impar</b> / Striped Legless Lizard	<b>351_DNG</b>	37.6	270.00

## BAM Biodiversity Credit Report (Variations)

<b>Petaurus norfolcensis</b> / Squirrel Glider	<b>351_ModerateGood_Remnant, 289_ModerateGood, 350_Moderate, 351_Argyle</b>	33.4	1233.00
<b>Polytelis swainsonii</b> / Superb Parrot	<b>350_Moderate</b>	4.8	175.00
<b>Synemon plana</b> / Golden Sun Moth	<b>350_DNG, 351_DNG</b>	43.7	322.00

### Credit Retirement Options Like-for-like options

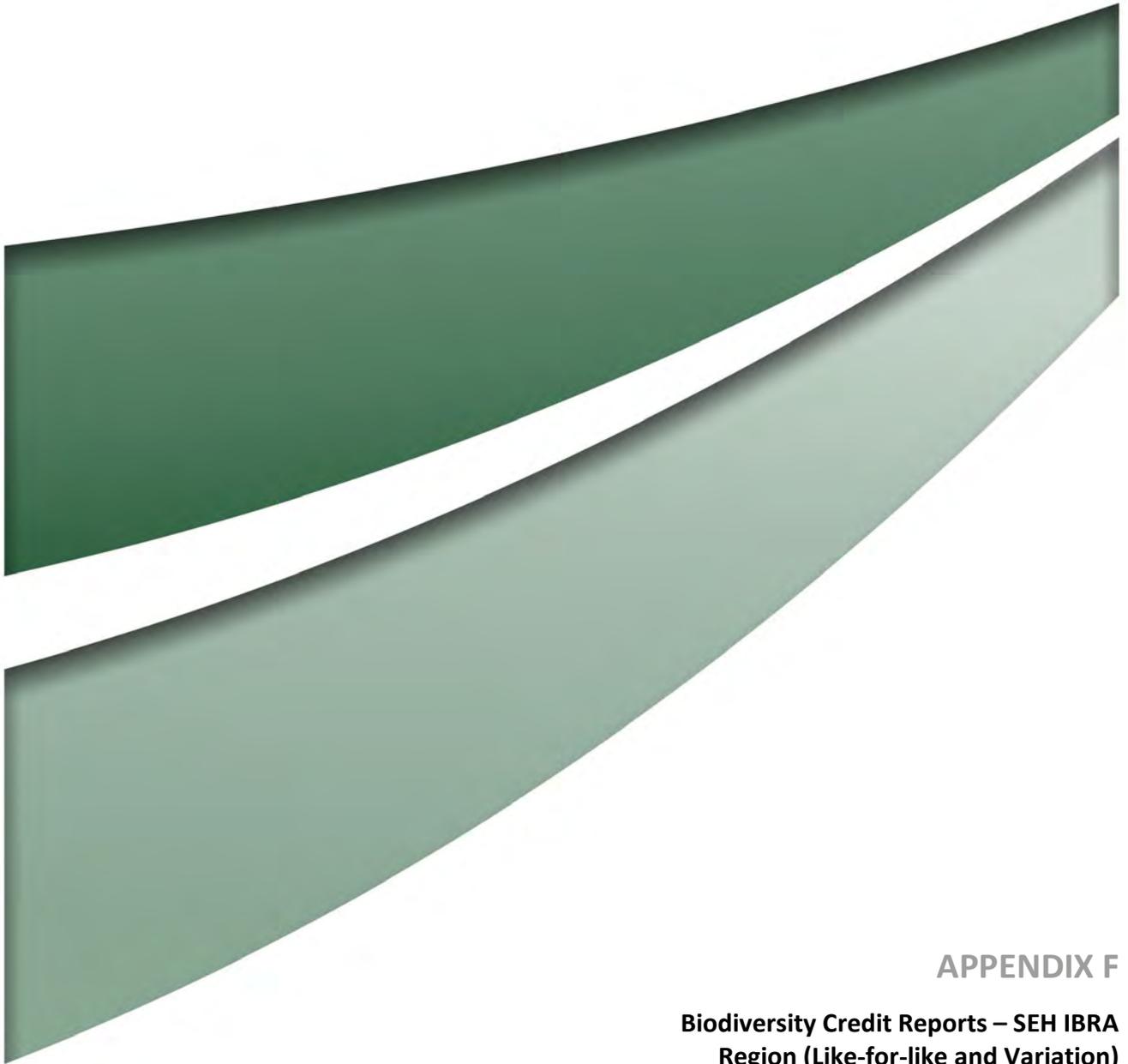
<b>Delma impar</b> / Striped Legless Lizard	Spp		IBRA region
	<b>Delma impar</b> /Striped Legless Lizard		Any in NSW
	<b>Variation options</b>		
	Kingdom	Any species with same or higher category of listing under Part 4 of the BC Act shown below	IBRA region
Fauna	Vulnerable	Inland Slopes, Bogan-Macquarie, Bondo, Capertee Uplands, Capertee Valley, Crookwell, Hill End, Kerrabee, Lower Slopes, Murray Fans, Murrumbateman, Orange, Pilliga, Talbragar Valley and Wollemi. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.	
<b>Petaurus norfolcensis</b> / Squirrel Glider	Spp		IBRA region

## BAM Biodiversity Credit Report (Variations)

	<b>Petaurus norfolcensis</b> /Squirrel Glider	Any in NSW
<b>Variation options</b>		
Kingdom	Any species with same or higher category of listing under Part 4 of the BC Act shown below	IBRA region
Fauna	Vulnerable	Inland Slopes, Bogan-Macquarie, Bondo, Capertee Uplands, Capertee Valley, Crookwell, Hill End, Kerrabee, Lower Slopes, Murray Fans, Murrumbateman, Orange, Pilliga, Talbragar Valley and Wollemi. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
<b>Polytelis swainsonii</b> / Superb Parrot	Spp	IBRA region
	<b>Polytelis swainsonii</b> /Superb Parrot	Any in NSW
	<b>Variation options</b>	
Kingdom	Any species with same or higher category of listing under Part 4 of the BC Act shown below	IBRA region

## BAM Biodiversity Credit Report (Variations)

	Fauna	Vulnerable	Inland Slopes, Bogan-Macquarie, Bondo, Capertee Uplands, Capertee Valley, Crookwell, Hill End, Kerrabee, Lower Slopes, Murray Fans, Murrumbateman, Orange, Pilliga, Talbragar Valley and Wollemi. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
<b>Synemon plana/</b> Golden Sun Moth	Spp	IBRA region	
	<b>Synemon plana/</b> Golden Sun Moth	Any in NSW	
	<b>Variation options</b>		
	Kingdom	Any species with same or higher category of listing under Part 4 of the BC Act shown below	IBRA region
	Fauna	Vulnerable	Inland Slopes, Bogan-Macquarie, Bondo, Capertee Uplands, Capertee Valley, Crookwell, Hill End, Kerrabee, Lower Slopes, Murray Fans, Murrumbateman, Orange, Pilliga, Talbragar Valley and Wollemi. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.



## APPENDIX F

### **Biodiversity Credit Reports – SEH IBRA Region (Like-for-like and Variation)**

## Proposal Details

Assessment Id	Proposal Name	BAM data last updated *
00010359/BAAS17068/18/00012903	Rye Park Development SEH IBRA - Mod 2 Finalisation	22/06/2023
Assessor Name	Report Created	BAM Data version *
Bill Wallach	20/10/2023	61
Assessor Number	BAM Case Status	Date Finalised
BAAS17068	Finalised	20/10/2023
Assessment Revision	Assessment Type	
16	Major Projects	

\* Disclaimer: BAM data last updated may indicate either complete or partial update of the BAM calculator database. BAM calculator database may not be completely aligned with Bionet.

## Ecosystem credits for plant communities types (PCT), ecological communities & threatened species habitat

Zone	Vegetation zone name	TEC name	Current Vegetation integrity score	Change in Vegetation integrity (loss / gain)	Area (ha)	Sensitivity to loss (Justification)	Species sensitivity to gain class	BC Act Listing status	EPBC Act listing status	Biodiversity risk weighting	Potential SAI	Ecosystem credits
<b>Brittle Gum - Broad-leaved Peppermint - Red Stringybark open forest in the north-western part (Yass to Orange) of the South Eastern Highlands Bioregion</b>												
3	351_DNG	Not a TEC	19.7	19.7	36.7	PCT Cleared - 60%	High Sensitivity to Gain			1.75		317

## BAM Credit Summary Report

4	351_Sifton	Not a TEC	25	25.0	12.4	PCT Cleared - 60%	High Sensitivity to Gain			1.75		136
5	351_Exotic	Not a TEC	7.6	7.6	33.1	PCT Cleared - 60%	High Sensitivity to Gain			1.75		0
7	351_Mode rateGood_ Remnant	Not a TEC	79.6	78.6	23.2	PCT Cleared - 60%	High Sensitivity to Gain			1.75		799
8	351_Mode rateGood_ Acacia	Not a TEC	56	47.5	3.3	PCT Cleared - 60%	High Sensitivity to Gain			1.75		69
											<b>Subtotal</b>	<b>1321</b>

**Candlebark - Blakely's Red Gum - Long-leaved Box grassy woodland in the Rye Park to Yass region of the NSW South Western Slopes Bioregion and South Eastern Highland Bioregion**

2	350_DNG	White Box - Yellow Box - Blakely's Red Gum Grassy Woodland and Derived Native Grassland in the NSW North Coast, New England Tableland, Nandewar, Brigalow Belt South, Sydney Basin, South Eastern Highla	34.9	34.9	3.5	Population size	High Sensitivity to Gain	Critically Endangered Ecological Community	Not Listed	2.50	True	76
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6	350_Mode rate	White Box - Yellow Box - Blakely's Red Gum Grassy Woodland and Derived Native Grassland in the NSW North Coast, New England Tableland, Nandewar, Brigalow Belt South, Sydney Basin, South Eastern Highla	68.3	59.2	11	Population size	High Sensitivity to Gain	Critically Endangered Ecological Community	Not Listed	2.50	True	409
											<b>Subtotal</b>	<b>485</b>
<b>Tussock grass - sedgeland fen - rushland - reedland wetland in impeded creeks in valleys in the upper slopes sub-region of the NSW South Western Slopes Bioregion</b>												
1	335_Mode rateGood	Not a TEC	35.1	35.1	0.96	PCT Cleared - 83%	High Sensitivity to Gain			2.00		17
											<b>Subtotal</b>	<b>17</b>
											<b>Total</b>	<b>1823</b>

## Species credits for threatened species

## BAM Credit Summary Report

Vegetation zone name	Habitat condition (Vegetation Integrity)	Change in habitat condition	Area (ha)/Count (no. individuals)	Sensitivity to loss (Justification)	Sensitivity to gain (Justification)	BC Act Listing status	EPBC Act listing status	Potential SAI	Species credits
<b><i>Petaurus norfolcensis / Squirrel Glider ( Fauna )</i></b>									
351_ModerateG ood_Remnant	78.6	78.6	23.2			Vulnerable	Not Listed	False	913
350_Moderate	59.2	59.2	11			Vulnerable	Not Listed	False	327
								<b>Subtotal</b>	<b>1240</b>
<b><i>Polytelis swainsonii / Superb Parrot ( Fauna )</i></b>									
350_Moderate	59.2	59.2	11			Vulnerable	Vulnerable	False	327
								<b>Subtotal</b>	<b>327</b>
<b><i>Synemon plana / Golden Sun Moth ( Fauna )</i></b>									
350_DNG	34.9	34.9	1.4			Vulnerable	Vulnerable	False	18
351_DNG	19.7	19.7	20.1			Vulnerable	Vulnerable	False	149
								<b>Subtotal</b>	<b>167</b>

# BAM Biodiversity Credit Report (Like for like)

## Proposal Details

Assessment Id	Proposal Name	BAM data last updated *
00010359/BAAS17068/18/00012903	Rye Park Development SEH IBRA - Mod 2 Finalisation	22/06/2023
Assessor Name	Assessor Number	BAM Data version *
Bill Wallach	BAAS17068	61
Proponent Names	Report Created	BAM Case Status
Tilt Renewables	20/10/2023	Finalised
Assessment Revision	Assessment Type	Date Finalised
16	Major Projects	20/10/2023

\* Disclaimer: BAM data last updated may indicate either complete or partial update of the BAM calculator database. BAM calculator database may not be completely aligned with Bionet.

## Potential Serious and Irreversible Impacts

Name of threatened ecological community	Listing status	Name of Plant Community Type/ID
White Box - Yellow Box - Blakely's Red Gum Grassy Woodland and Derived Native Grassland in the NSW North Coast, New England Tableland, Nandewar, Brigalow Belt South, Sydney Basin, South Eastern Highla	Critically Endangered Ecological Community	350-Candlebark - Blakely's Red Gum - Long-leaved Box grassy woodland in the Rye Park to Yass region of the NSW South Western Slopes Bioregion and South Eastern Highland Bioregion
Species		



# BAM Biodiversity Credit Report (Like for like)

Nil

## Additional Information for Approval

PCT Outside Ibra Added

None added

PCTs With Customized Benchmarks

PCT

No Changes

Predicted Threatened Species Not On Site

Name

No Changes

## Ecosystem Credit Summary (Number and class of biodiversity credits to be retired)



## BAM Biodiversity Credit Report (Like for like)

Name of Plant Community Type/ID	Name of threatened ecological community	Area of impact	HBT Cr	No HBT Cr	Total credits to be retired
335-Tussock grass - sedgeland fen - rushland - reedland wetland in impeded creeks in valleys in the upper slopes sub-region of the NSW South Western Slopes Bioregion	Not a TEC	1.0	0	17	17
350-Candlebark - Blakely's Red Gum - Long-leaved Box grassy woodland in the Rye Park to Yass region of the NSW South Western Slopes Bioregion and South Eastern Highland Bioregion	White Box - Yellow Box - Blakely's Red Gum Grassy Woodland and Derived Native Grassland in the NSW North Coast, New England Tableland, Nandewar, Brigalow Belt South, Sydney Basin, South Eastern Highla	14.5	409	76	485
351-Brittle Gum - Broad-leaved Peppermint - Red Stringybark open forest in the north-western part (Yass to Orange) of the South Eastern Highlands Bioregion	Not a TEC	108.8	1185	136	1321

335-Tussock grass - sedgeland fen - rushland - reedland wetland in impeded creeks in valleys in the upper slopes sub-region of the NSW South Western Slopes Bioregion	Like-for-like credit retirement options					
	Class	Trading group	Zone	HBT	Credits	IBRA region
	Inland Floodplain Swamps This includes PCT's: 66, 204, 205, 335, 360, 447, 465, 1291	Inland Floodplain Swamps >=70% and <90%	335_Moderate Good	No	17	Murrumbateman, Bondo, Crookwell, Inland Slopes, Monaro, Murrumbateman and Snowy Mountains.  or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.

## BAM Biodiversity Credit Report (Like for like)

<p><b>335-Tussock grass - sedgeland fen - rushland - reedland wetland in impeded creeks in valleys in the upper slopes sub-region of the NSW South Western Slopes Bioregion</b></p>						
<p><b>350-Candlebark - Blakely's Red Gum - Long-leaved Box grassy woodland in the Rye Park to Yass region of the NSW South Western Slopes Bioregion and South Eastern Highland Bioregion</b></p>	<b>Like-for-like credit retirement options</b>					
	Name of offset trading group	Trading group	Zone	HBT	Credits	IBRA region
	White Box - Yellow Box - Blakely's Red Gum Grassy Woodland and Derived Native Grassland in the NSW North Coast, New England Tableland, Nandewar, Brigalow Belt South, Sydney Basin, South Eastern Highla	-	350_DNG	No	76	Murrumbateman, Bondo, Crookwell, Inland Slopes, Monaro, Murrumbateman and Snowy Mountains.  or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
	This includes PCT's: 74, 75, 83, 250, 266, 267, 268, 270, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 286, 298, 302, 312, 341, 342, 347,					



## BAM Biodiversity Credit Report (Like for like)

	<p>350, 352, 356, 367, 381, 382, 395, 401, 403, 421, 433, 434, 435, 436, 437, 451, 483, 484, 488, 492, 496, 508, 509, 510, 511, 528, 538, 544, 563, 567, 571, 589, 590, 597, 599, 618, 619, 622, 633, 654, 702, 703, 704, 705, 710, 711, 796, 797, 799, 840, 847, 851, 921, 1099, 1103, 1303, 1304, 1307, 1324, 1329, 1330, 1331, 1332, 1333, 1334, 1383, 1401, 1512, 1606, 1608, 1611, 1691, 1693, 1695, 1698, 3314, 3359, 3363, 3373, 3376, 3387, 3388, 3394, 3395, 3396, 3397, 3398, 3399, 3406, 3415, 3533, 4147, 4149, 4150</p>					
	<p>White Box - Yellow Box - Blakely's Red Gum Grassy Woodland and Derived Native Grassland in the NSW North Coast, New</p>	-	350_Moderate	Yes	409	<p>Murrumbateman, Bondo, Crookwell, Inland Slopes, Monaro, Murrumbateman and Snowy Mountains. or Any IBRA subregion that is within 100</p>

## BAM Biodiversity Credit Report (Like for like)

	<p>England Tableland, Nandewar, Brigalow Belt South, Sydney Basin, South Eastern Highla This includes PCT's: 74, 75, 83, 250, 266, 267, 268, 270, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 286, 298, 302, 312, 341, 342, 347, 350, 352, 356, 367, 381, 382, 395, 401, 403, 421, 433, 434, 435, 436, 437, 451, 483, 484, 488, 492, 496, 508, 509, 510, 511, 528, 538, 544, 563, 567, 571, 589, 590, 597, 599, 618, 619, 622, 633, 654, 702, 703, 704, 705, 710, 711, 796, 797, 799, 840, 847, 851, 921, 1099, 1103, 1303, 1304, 1307, 1324, 1329, 1330, 1331, 1332, 1333, 1334, 1383, 1401, 1512, 1606, 1608, 1611, 1691, 1693, 1695, 1698, 3314, 3359, 3363,</p>				<p>kilometers of the outer edge of the impacted site.</p>
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## BAM Biodiversity Credit Report (Like for like)

	3373, 3376, 3387, 3388, 3394, 3395, 3396, 3397, 3398, 3399, 3406, 3415, 3533, 4147, 4149, 4150					
<b>351-Brittle Gum - Broad-leaved Peppermint - Red Stringybark open forest in the north-western part (Yass to Orange) of the South Eastern Highlands Bioregion</b>	<b>Like-for-like credit retirement options</b>					
	Class	Trading group	Zone	HBT	Credits	IBRA region
	Southern Tableland Dry Sclerophyll Forests This includes PCT's: 299, 344, 349, 351, 352, 653, 701, 727, 728, 730, 888, 957, 1093, 1177, 3730, 3732, 3734, 3735, 3737, 3738, 3741, 3743, 3744, 3746, 3747	Southern Tableland Dry Sclerophyll Forests >=50% and <70%	351_DNG	Yes	317	Murrumbateman, Bondo, Crookwell, Inland Slopes, Monaro, Murrumbateman and Snowy Mountains.  or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
Southern Tableland Dry Sclerophyll Forests This includes PCT's: 299, 344, 349, 351, 352, 653, 701, 727, 728, 730, 888, 957, 1093, 1177, 3730, 3732, 3734, 3735, 3737, 3738, 3741, 3743, 3744, 3746, 3747	Southern Tableland Dry Sclerophyll Forests >=50% and <70%	351_Sifton	No	136	Murrumbateman, Bondo, Crookwell, Inland Slopes, Monaro, Murrumbateman and Snowy Mountains.  or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.	

## BAM Biodiversity Credit Report (Like for like)

	<p>Southern Tableland Dry Sclerophyll Forests This includes PCT's: 299, 344, 349, 351, 352, 653, 701, 727, 728, 730, 888, 957, 1093, 1177, 3730, 3732, 3734, 3735, 3737, 3738, 3741, 3743, 3744, 3746, 3747</p>	<p>Southern Tableland Dry Sclerophyll Forests &gt;=50% and &lt;70%</p>	<p>351_Exotic</p>	<p>No</p>	<p>0</p>	<p>Murrumbateman, Bondo, Crookwell, Inland Slopes, Monaro, Murrumbateman and Snowy Mountains.  or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.</p>
	<p>Southern Tableland Dry Sclerophyll Forests This includes PCT's: 299, 344, 349, 351, 352, 653, 701, 727, 728, 730, 888, 957, 1093, 1177, 3730, 3732, 3734, 3735, 3737, 3738, 3741, 3743, 3744, 3746, 3747</p>	<p>Southern Tableland Dry Sclerophyll Forests &gt;=50% and &lt;70%</p>	<p>351_Moderate Good_Remnant</p>	<p>Yes</p>	<p>799</p>	<p>Murrumbateman, Bondo, Crookwell, Inland Slopes, Monaro, Murrumbateman and Snowy Mountains.  or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.</p>

## BAM Biodiversity Credit Report (Like for like)

	Southern Tableland Dry Sclerophyll Forests This includes PCT's: 299, 344, 349, 351, 352, 653, 701, 727, 728, 730, 888, 957, 1093, 1177, 3730, 3732, 3734, 3735, 3737, 3738, 3741, 3743, 3744, 3746, 3747	Southern Tableland Dry Sclerophyll Forests >=50% and <70%	351_Moderate Good_Acacia	Yes		69 Murrumbateman, Bondo, Crookwell, Inland Slopes, Monaro, Murrumbateman and Snowy Mountains.  or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
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### Species Credit Summary

Species	Vegetation Zone/s	Area / Count	Credits
<b>Petaurus norfolcensis</b> / Squirrel Glider	<b>351_ModerateGood_Remnant, 350_Moderate</b>	34.3	1240.00
<b>Polytelis swainsonii</b> / Superb Parrot	<b>350_Moderate</b>	11.1	327.00
<b>Synemon plana</b> / Golden Sun Moth	<b>350_DNG, 351_DNG</b>	21.5	167.00

### Credit Retirement Options

Like-for-like credit retirement options

Species	Spp	IBRA subregion
<b>Petaurus norfolcensis</b> / Squirrel Glider		
	<b>Petaurus norfolcensis</b> / Squirrel Glider	Any in NSW



## BAM Biodiversity Credit Report (Like for like)

<b>Polytelis swainsonii</b> / Superb Parrot	Spp	IBRA subregion
	<b>Polytelis swainsonii</b> / Superb Parrot	Any in NSW
<b>Synemon plana</b> / Golden Sun Moth	Spp	IBRA subregion
	<b>Synemon plana</b> / Golden Sun Moth	Any in NSW

## Proposal Details

<b>Assessment Id</b>	Proposal Name	BAM data last updated *
00010359/BAAS17068/18/00012903	Rye Park Development SEH IBRA - Mod 2 Finalisation	22/06/2023
Assessor Name	Assessor Number	BAM Data version *
Bill Wallach	BAAS17068	61
Proponent Name(s)	Report Created	BAM Case Status
Tilt Renewables	20/10/2023	Finalised
Assessment Revision	Assessment Type	Date Finalised
16	Major Projects	20/10/2023

\* Disclaimer: BAM data last updated may indicate either complete or partial update of the BAM calculator database. BAM calculator database may not be completely aligned with Bionet.

## Potential Serious and Irreversible Impacts

Name of threatened ecological community	Listing status	Name of Plant Community Type/ID
White Box - Yellow Box - Blakely's Red Gum Grassy Woodland and Derived Native Grassland in the NSW North Coast, New England Tableland, Nandewar, Brigalow Belt South, Sydney Basin, South Eastern Highla	Critically Endangered Ecological Community	350-Candlebark - Blakely's Red Gum - Long-leaved Box grassy woodland in the Rye Park to Yass region of the NSW South Western Slopes Bioregion and South Eastern Highland Bioregion
Species		
<b>Nil</b>		

## Additional Information for Approval

PCT Outside Ibra Added  
None added

### PCTs With Customized Benchmarks

PCT

No Changes

### Predicted Threatened Species Not On Site

Name

No Changes

### Ecosystem Credit Summary (Number and class of biodiversity credits to be retired)

Name of Plant Community Type/ID	Name of threatened ecological community	Area of impact	HBT Cr	No HBT Cr	Total credits to be retired
335-Tussock grass - sedgeland fen - rushland - reedland wetland in impeded creeks in valleys in the upper slopes sub-region of the NSW South Western Slopes Bioregion	Not a TEC	1.0	0	17	17.00
350-Candlebark - Blakely's Red Gum - Long-leaved Box grassy woodland in the Rye Park to Yass region of the NSW South Western Slopes Bioregion and South Eastern Highland Bioregion	White Box - Yellow Box - Blakely's Red Gum Grassy Woodland and Derived Native Grassland in the NSW North Coast, New England Tableland, Nandewar, Brigalow Belt South, Sydney Basin, South Eastern Highla	14.5	409	76	485.00
351-Brittle Gum - Broad-leaved Peppermint - Red Stringybark open forest in the north-western part (Yass to Orange) of the South Eastern Highlands Bioregion	Not a TEC	108.8	1185	136	1321.00

## BAM Biodiversity Credit Report (Variations)

<b>335-Tussock grass - sedgeland fen - rushland - reedland wetland in impeded creeks in valleys in the upper slopes sub-region of the NSW South Western Slopes Bioregion</b>	<b>Like-for-like credit retirement options</b>						
	Class	Trading group	Zone	HBT	Credits	IBRA region	
	Inland Floodplain Swamps This includes PCT's: 66, 204, 205, 335, 360, 447, 465, 1291	Inland Floodplain Swamps >=70% and <90%	335_ModerateGood	No	17	Murrumbateman, Bongo, Crookwell, Inland Slopes, Monaro, Murrumbateman and Snowy Mountains. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.	
	<b>Variation options</b>						
		Formation	Trading group	Zone	HBT	Credits	IBRA region
		Freshwater Wetlands	Tier 2 or higher threat status	335_ModerateGood	No	17	IBRA Region: South Eastern Highlands, or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
<b>350-Candlebark - Blakely's Red Gum - Long-leaved Box grassy woodland in the Rye Park to Yass region of the NSW South Western Slopes Bioregion and South Eastern Highland Bioregion</b>	<b>Like-for-like credit retirement options</b>						
	Class	Trading group	Zone	HBT	Credits	IBRA region	
	White Box - Yellow Box - Blakely's Red Gum Grassy Woodland and Derived Native Grassland in the NSW North Coast, New England Tableland, Nandewar, Brigalow Belt South, Sydney Basin, South Eastern Highla This includes PCT's:	-	350_DNG	No	76	Murrumbateman, Bongo, Crookwell, Inland Slopes, Monaro, Murrumbateman and Snowy Mountains. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.	

## BAM Biodiversity Credit Report (Variations)

	<p>74, 75, 83, 250, 266, 267, 268, 270, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 286, 298, 302, 312, 341, 342, 347, 350, 352, 356, 367, 381, 382, 395, 401, 403, 421, 433, 434, 435, 436, 437, 451, 483, 484, 488, 492, 496, 508, 509, 510, 511, 528, 538, 544, 563, 567, 571, 589, 590, 597, 599, 618, 619, 622, 633, 654, 702, 703, 704, 705, 710, 711, 796, 797, 799, 840, 847, 851, 921, 1099, 1103, 1303, 1304, 1307, 1324, 1329, 1330, 1331, 1332, 1333, 1334, 1383, 1401, 1512, 1606, 1608, 1611, 1691, 1693, 1695, 1698, 3314, 3359, 3363, 3373, 3376, 3387, 3388, 3394, 3395, 3396, 3397, 3398, 3399, 3406, 3415, 3533, 4147, 4149, 4150</p>					
	<p>White Box - Yellow Box - Blakely's Red Gum Grassy Woodland and Derived Native Grassland in the NSW North Coast, New</p>	<p>-</p>	<p>350_Moderate</p>	<p>Yes</p>	<p>409</p>	<p>Murrumbateman, Bondo, Crookwell, Inland Slopes, Monaro, Murrumbateman and Snowy Mountains. or Any IBRA subregion that is within 100</p>

## BAM Biodiversity Credit Report (Variations)

	<p>England Tableland, Nandewar, Brigalow Belt South, Sydney Basin, South Eastern Highla This includes PCT's: 74, 75, 83, 250, 266, 267, 268, 270, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 286, 298, 302, 312, 341, 342, 347, 350, 352, 356, 367, 381, 382, 395, 401, 403, 421, 433, 434, 435, 436, 437, 451, 483, 484, 488, 492, 496, 508, 509, 510, 511, 528, 538, 544, 563, 567, 571, 589, 590, 597, 599, 618, 619, 622, 633, 654, 702, 703, 704, 705, 710, 711, 796, 797, 799, 840, 847, 851, 921, 1099, 1103, 1303, 1304, 1307, 1324, 1329, 1330, 1331, 1332, 1333, 1334, 1383, 1401, 1512, 1606, 1608, 1611, 1691, 1693, 1695, 1698, 3314, 3359, 3363, 3373, 3376, 3387, 3388, 3394, 3395, 3396, 3397, 3398, 3399, 3406, 3415, 3533, 4147, 4149, 4150</p>					<p>kilometers of the outer edge of the impacted site.</p>
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## BAM Biodiversity Credit Report (Variations)

**351-Brittle Gum - Broad-leaved Peppermint - Red Stringybark open forest in the north-western part (Yass to Orange) of the South Eastern Highlands Bioregion**

**Like-for-like credit retirement options**

Class	Trading group	Zone	HBT	Credits	IBRA region
Southern Tableland Dry Sclerophyll Forests This includes PCT's: 299, 344, 349, 351, 352, 653, 701, 727, 728, 730, 888, 957, 1093, 1177, 3730, 3732, 3734, 3735, 3737, 3738, 3741, 3743, 3744, 3746, 3747	Southern Tableland Dry Sclerophyll Forests $\geq 50\%$ and $< 70\%$	351_DNG	Yes	317	Murrumbateman, Bondo, Crookwell, Inland Slopes, Monaro, Murrumbateman and Snowy Mountains. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
Southern Tableland Dry Sclerophyll Forests This includes PCT's: 299, 344, 349, 351, 352, 653, 701, 727, 728, 730, 888, 957, 1093, 1177, 3730, 3732, 3734, 3735, 3737, 3738, 3741, 3743, 3744, 3746, 3747	Southern Tableland Dry Sclerophyll Forests $\geq 50\%$ and $< 70\%$	351_Sifton	No	136	Murrumbateman, Bondo, Crookwell, Inland Slopes, Monaro, Murrumbateman and Snowy Mountains. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.

## BAM Biodiversity Credit Report (Variations)

Southern Tableland Dry Sclerophyll Forests This includes PCT's: 299, 344, 349, 351, 352, 653, 701, 727, 728, 730, 888, 957, 1093, 1177, 3730, 3732, 3734, 3735, 3737, 3738, 3741, 3743, 3744, 3746, 3747	Southern Tableland Dry Sclerophyll Forests >=50% and <70%	351_Exotic	No	0	Murrumbateman, Bondo, Crookwell, Inland Slopes, Monaro, Murrumbateman and Snowy Mountains. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
Southern Tableland Dry Sclerophyll Forests This includes PCT's: 299, 344, 349, 351, 352, 653, 701, 727, 728, 730, 888, 957, 1093, 1177, 3730, 3732, 3734, 3735, 3737, 3738, 3741, 3743, 3744, 3746, 3747	Southern Tableland Dry Sclerophyll Forests >=50% and <70%	351_ModerateGoodRemnant	Yes	799	Murrumbateman, Bondo, Crookwell, Inland Slopes, Monaro, Murrumbateman and Snowy Mountains. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
Southern Tableland Dry Sclerophyll Forests This includes PCT's: 299, 344, 349, 351, 352, 653, 701, 727, 728, 730, 888, 957, 1093, 1177, 3730, 3732, 3734, 3735, 3737, 3738, 3741, 3743, 3744, 3746, 3747	Southern Tableland Dry Sclerophyll Forests >=50% and <70%	351_ModerateGoodAcacia	Yes	69	Murrumbateman, Bondo, Crookwell, Inland Slopes, Monaro, Murrumbateman and Snowy Mountains. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
<b>Variation options</b>					
Formation	Trading group	Zone	HBT	Credits	IBRA region

## BAM Biodiversity Credit Report (Variations)

Dry Sclerophyll Forests (Shrubby sub-formation)	Tier 3 or higher threat status	351_DNG	Yes (including artificial)	317	IBRA Region: South Eastern Highlands, or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
Dry Sclerophyll Forests (Shrubby sub-formation)	Tier 3 or higher threat status	351_Sifton	No	136	IBRA Region: South Eastern Highlands, or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
Dry Sclerophyll Forests (Shrubby sub-formation)	Tier 3 or higher threat status	351_Exotic	No	0	IBRA Region: South Eastern Highlands, or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
Dry Sclerophyll Forests (Shrubby sub-formation)	Tier 3 or higher threat status	351_ModerateGood_Remnant	Yes (including artificial)	799	IBRA Region: South Eastern Highlands, or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
Dry Sclerophyll Forests (Shrubby sub-formation)	Tier 3 or higher threat status	351_ModerateGood_Acacia	Yes (including artificial)	69	IBRA Region: South Eastern Highlands, or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.

### Species Credit Summary

Species	Vegetation Zone/s	Area / Count	Credits
<b>Petaurus norfolcensis</b> / Squirrel Glider	<b>351_ModerateGood_Remnant,</b> <b>350_Moderate</b>	34.3	1240.00

# BAM Biodiversity Credit Report (Variations)

<b>Polytelis swainsonii</b> / Superb Parrot	<b>350_Moderate</b>	11.1	327.00
<b>Synemon plana</b> / Golden Sun Moth	<b>350_DNG, 351_DNG</b>	21.5	167.00

## Credit Retirement Options Like-for-like options

<b>Petaurus norfolcensis</b> / Squirrel Glider	Spp		IBRA region
	<b>Petaurus norfolcensis</b> /Squirrel Glider		Any in NSW
	<b>Variation options</b>		
	Kingdom	Any species with same or higher category of listing under Part 4 of the BC Act shown below	IBRA region
Fauna	Vulnerable	Murrumbateman, Bondo, Crookwell, Inland Slopes, Monaro, Murrumbateman and Snowy Mountains. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.	
<b>Polytelis swainsonii</b> / Superb Parrot	Spp		IBRA region
	<b>Polytelis swainsonii</b> /Superb Parrot		Any in NSW
	<b>Variation options</b>		
	Kingdom	Any species with same or higher category of listing under Part 4 of the BC Act shown below	IBRA region

## BAM Biodiversity Credit Report (Variations)

	Fauna	Vulnerable	Murrumbateman, Bondo, Crookwell, Inland Slopes, Monaro, Murrumbateman and Snowy Mountains. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
<b>Synemon plana/</b> Golden Sun Moth	Spp	IBRA region	
	<b>Synemon plana</b> /Golden Sun Moth	Any in NSW	
	<b>Variation options</b>		
	Kingdom	Any species with same or higher category of listing under Part 4 of the BC Act shown below	IBRA region
	Fauna	Vulnerable	Murrumbateman, Bondo, Crookwell, Inland Slopes, Monaro, Murrumbateman and Snowy Mountains. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.



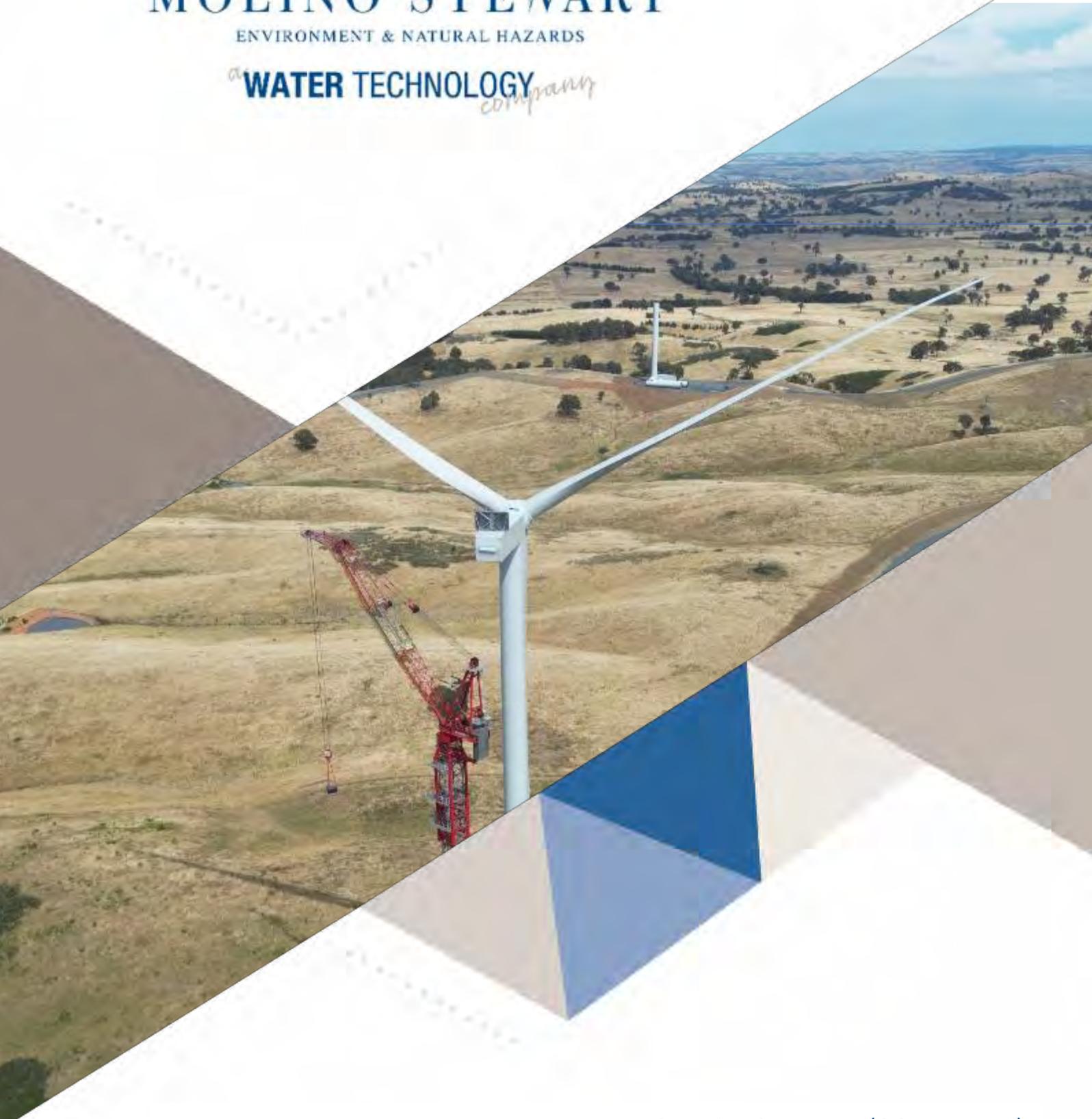


## **Attachment 2: Independent DPE Compliance Audit Report (dated May 2023)**

# MOLINO STEWART

ENVIRONMENT & NATURAL HAZARDS

a **WATER TECHNOLOGY** company



Rye Park Wind Farm (SSD 6693)  
*Independent Environmental Audit*  
FINAL

# Rye Park Wind Farm (SSD 6693) Independent Environmental Audit FINAL

Client: Rye Park Renewable Energy

Prepared by:

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May 2023

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# Document Control

Document Reference	1470.Rye_Park_Audit_Report Final
Project	Rye Park Wind Farm Independent Environmental Audit
Document Type	Independent Environmental Audit
Author	Steven Molino

## Revision History

Date	Version	Name	Comments
23/03/2023	1.0	Roland van Amstel	Draft
05/04/2023	1.1	Steven Molino	Draft for auditee feedback
01/05/2023	Final	Steven Molino	Final

## Document Approval

For Molino Stewart	
Name	Steven Molino
Position	Director
For Rye Park Renewable Energy	
Name	Andrew Galland
Position	Site HSEC Manager – Rye Park Wind Farm



# Executive Summary

Rye Park Renewable Energy Pty Ltd (RPRE), a subsidiary of Tilt Renewables, is constructing the Rye Park Wind Farm, located to the north of Yass and east of Boorowa, NSW, on the edge of the Southern Tablelands and the South-West Slopes near the township of Rye Park. The project spans the Hilltops, Upper Lachlan, and Yass Valley local government areas, located approximately 11km north-east of Yass on predominantly stock farming land. Upon completion, the wind farm will comprise 66 wind turbines providing a maximum capacity of 396 MW.

The project received approval by the then Minister of Planning on 22 May 2017 and is considered State Significant Development (SSD 6693). The approval is conditional on the adherence to the Conditions of Consent which are outlined in the project approval and which have since been subject to modifications determined on 15 April 2021 (SSD-6693 MOD1) and on 23 September 2022 (SSD-6693 MOD2).

The approval conditions require Independent Environmental Audits (IEA) to be undertaken by an independent and suitably qualified auditing team and in accordance with the *Independent Audit Post Approval Requirements (IAPAR, 2020)* to the following frequency:

- a. within 3 months of commencing construction; and
- b. within 3 months of commencing operations.

Construction of the Rye Park Wind Farm project commenced on 1 December 2021 and the first independent audit was carried out on 22 February 2022 for that period, i.e. 01 December 2021 – 22 February 2022. On 9 January 2023, the Department of Planning and Environment (DPE) Planning Secretary directed an additional IEA be undertaken for the period 26 February 2022 to 28 February 2023, citing the fact that substantial works had occurred on the project since the initial 2022 IEA, as well as recent non-compliances and several complaints received.

Molino Stewart has been engaged by Tilt Renewables to complete the additional environmental audit for the Rye Park Wind Farm project as per the relevant requirements of the conditions of consent. This includes a comprehensive report which outlines the audit methodology, findings, and recommended measures or actions that will improve the environmental performance of the project (this report). The audit has reviewed the project's compliance via systems, documents, records, and procedures in relation to conditions of consent associated with the Rye Park Wind Farm Project, for the 12-month period from 26 February 2022 to 28 February 2023.

The audit considered a total of 76 conditions set out in the *Consolidated Conditions of Consent SSD-6693 MOD2* dd. 23 September 2022, of which there were 175 separately assessable sub-conditions (items).

Of the 175 assessable sub-conditions, during the audit a total of 138 conditions were determined to be compliant and 37 conditions were not triggered. A total of 8 opportunities for improvement were noted. At the time of releasing the final report Tilt Renewables has provided Molino Stewart with a response to the identified opportunities for improvement (dated 28 April 2023), identifying a schedule and status for addressing the relevant opportunities for improvement.

The systems which Tilt, Zenvion and Vestas have in place, the documentation reviewed and observations on site are all indicative that all reasonable and feasible measures are being implemented to minimise material harm to the environment from the construction of the plant. Nevertheless, there are opportunities for improvement in these systems. It is too early to comment on operational or decommissioning impacts.

The opportunities for improvement relate to hazardous materials storage and management, erosion and sediment controls, heritage management documentation, plant and equipment service history

documentation, site inductions and the OSOM vehicle movement booking system These are detailed in the audit report.

There have been several non-conformances with regard to light and heavy vehicle movements but these are less than 10 from thousands of vehicle movements in the past 12 months and corrective actions were taken as soon as Tilt became aware of each non-conformance. In the auditor's opinion these are neither non-compliances nor opportunities for improvement.

There remain issues of dispute between Tilt and Hilltops Council regarding the adequacy of the roadworks conducted by Tilt and the repair of road damage in that LGA. The audit has found that Tilt has undertaken the roadworks as required by the conditions of consent and for some of the works has had an independent engineer verify their compliance with the agreed design. Any ongoing dispute between the parties regarding the adequacy of the designs or the workmanship would need to be adjudicated by a road design engineer and are beyond the scope of this audit. Similarly, there is a requirement for development related road damage to be made good and Tilt and Hilltops Council cannot agree whether damage to the roads is related to the development or is a result of the prolonged wet weather in 2022. This too is beyond the scope of the audit to resolve.



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# 1 | Introduction

## 1.1 Background

Rye Park Renewable Energy Pty Ltd (RPRE), a subsidiary of Tilt Renewables, is constructing the Rye Park Wind Farm, located to the north of Yass and east of Boorowa, NSW, on the edge of the Southern Tablelands and the South-West Slopes near the township of Rye Park. The project spans the Hilltops, Upper Lachlan, and Yass Valley local government areas, located approximately 11km north-east of Yass on predominantly stock farming land. Upon completion, the wind farm will comprise 66 wind turbines providing a maximum capacity of 396 MW.

The project received approval by the then Minister of Planning on 22 May 2017 and is considered State Significant Development (SSD 6693). The approval is conditional on the adherence to the Conditions of Consent which are outlined in the project approval and which have since been subject to modifications determined on 15 April 2021 (SSD-6693 MOD1) and on 23 September 2022 (SSD-6693 MOD2).

The approval conditions require Independent Environmental Audits (IEA) to be undertaken by an independent and suitably qualified auditing team and in accordance with the *Independent Audit Post Approval Requirements (IAPAR, 2020)* to the following frequency:

- a. within 3 months of commencing construction; and
- b. within 3 months of commencing operations.

Construction of the Rye Park Wind Farm project commenced on 1 December 2021 and the first independent audit was carried out on 22 February 2022 for that period, i.e. 01 December 2021 – 22 February 2022. On 9 January 2023, the DPE Planning Secretary directed an additional IEA be undertaken for the period 26 February 2022 to 28 February 2023, citing the fact that substantial works had occurred on the project since the initial 2022 IEA, as well as recent non-compliances and several complaints received.

## 1.2 Audit Scope

To meet its post approval conditions, Tilt Renewables required an independent and suitable qualified contractor to assemble an expert audit team and undertake an independent environmental audit of the SSD-6693 project. The audit was to be undertaken in accordance with the relevant conditions of consent, Modification 2 dd. 23 September 2023, which in Schedule 5 stipulates for the Independent Environmental Audit:

5.11 Independent Audits of the development must be conducted and carried out in accordance with the *Independent Audit Post Approval Requirements (2020)* to the following frequency:

- a. within 3 months of commencing construction; and
- b. within 3 months of commencement of operations.

5.12 Independent Proposed independent auditors must be agreed to in writing by the Planning Secretary prior to the commencement of an Independent Audit.

5.13 The Planning Secretary may require the initial and subsequent Independent Audits to be undertaken at different times to those specified in condition 11 of Schedule 4 upon giving at least 4 weeks' notice to the Applicant of the date upon which the audit must be commenced.

5.14 In accordance with the specific requirements in the *Independent Audit Post Approval Requirements (2020)*, the Applicant must:

- a. review and respond to each Independent Audit Report prepared under condition 11 of Schedule 4 of this consent, or condition 13 of Schedule 4 where notice is given by the Planning Secretary;
- b. submit the response to the Planning Secretary; and
- c. make each Independent Audit Report, and response to it, publicly available within 60 days of submission to the Planning Secretary. unless otherwise agreed by the Planning Secretary.

5.15 Independent Audit Reports and the Applicant’s response to audit findings must be submitted to the Planning Secretary within 2 months of undertaking the independent audit site inspection as outlined in the *Independent Audit Post Approvals Requirements (2020)* unless otherwise agreed by the Planning Secretary.

5.16 Notwithstanding the requirements of the *Independent Audit Post Approvals Requirements (2020)*, the Planning Secretary may approve a request for ongoing independent operational audits to be ceased, where it has been demonstrated to the Planning Secretary’s satisfaction that independent operational audits have demonstrated operational compliance.

On 9 January 2023, the DPE Planning Secretary acted on clause 5.16 and directed an additional IEA be undertaken for the period 26 February 2022 to 28 February 2023, citing the fact that substantial works had occurred on the project since the initial 2022 IEA, as well as recent non-compliances and several complaints received.

Molino Stewart was engaged by Tilt Renewables to complete the additional environmental audit for the Rye Park Wind Farm project as per the relevant requirements of the conditions of consent. This includes a comprehensive report which outlines the audit methodology, findings, and recommended measures or actions that will improve the environmental performance of the project (this report).

### 1.2.1 Audit Period

This is an additional independent environmental audit during construction, carried out on direction by DPE and in accordance with *the Independent Audit Post Approvals Requirements (2020)* as follows:

Audit Nr	Audit Type	Audit Period	Status
1	Construction	01Dec21 – 28Feb22	Complete
2	Construction	26Feb22 – 28Feb23	This report

### 1.2.2 Audit Team and Endorsement

The audit was undertaken by Water Technology Pty Ltd trading as Molino Stewart’s Steven Molino BSc, BE (Hons), who has qualifications and experience which satisfies the requirements of certified lead environmental auditor. He was assisted by Roland van Amstel who is a trained environmental auditor. The approval documents issued by the Department of Planning and Environment (DPE) are provided in Appendix A. The audit team has provided the Declaration of Independence Forms as per Appendix E.

### 1.2.3 Independent Audit Post Approval Requirements 2020

The Independent Environmental Audit has been undertaken in accordance with the Department of Planning Industry and Environment’s (DPIE’s) *Independent Audit Post Approval Requirements (2020)*.

## 1.3 Audit Objective

This independent environmental audit is in accordance with its conditions of approval, particularly the Consolidated Conditions of Consent SSD-6693 MOD2 dd. 23 September 2022. This audit serves to assess the environmental performance of the project with reference to the relevant requirements in these conditions of consent.

## 2 | Terms of Reference

### 2.1 Audit Methodology

The audit was conducted between 09 February 2023, and 5 April 2023 with the site inspection taking place on 27<sup>th</sup> and 28<sup>th</sup> February.

The audit was based on:

- examination of a sample of administrative, technical and operating documents and records provided prior to, during and subsequent to the auditor’s site visit;
- site inspection of the facilities and surrounding areas; and
- interviews and discussions with key personnel.

#### 2.1.1 Audit Criteria

The Project was audited against the following criteria:

- Consolidated Conditions of Consent SSD-6693 MOD2 dd. 23 September 2022.
- Post approval documents required under the Conditions of Approval (including environmental mitigation measures and recommendations provided in environmental management plans).
- Department of Planning Industry and Environment (DPIE) *Independent Audit Post Approval Requirements* (2020).
- The feedback, requests, and/or comments of relevant agencies consulted.
- Any other relevant documentation, procedures or plans associated with the project.

#### 2.1.2 Site Inspection

The site inspection was conducted by Steven Molino on Monday 27 February and Tuesday 28 February 2023. The weather during this period was fine without there having been substantial rain in the prior week. A selection of the active construction areas of the Rye Park Wind Farm construction site were inspected which covered most of the project area. This included external road works, cable trench excavation, cable laying, turbine foundation excavations, foundation concreting and turbine erection. A turbine blade delivery was also observed.

Photos from the site inspection are presented in Appendix D.

#### 2.1.3 Site Interviews

Site interviews were undertaken by Steven Molino on 27-28 February 2023. Those interviewed are listed below:

- Andrew Galland - Tilt Site HSEC Manager
- James Beckett - Tilt Manager, Planning and Environment
- Jack Shuker - Tilt Project Director Deliver
- Jason Penny - Vestas Site Manager Berry Bank 2/ Rye Park Wind Farm
- Sasa Stegic - Zenviron Site Manager
- Bjarne Jensen - Zenviron Environmental Superintendent

## 2.1.4 Consultation

Consultation was undertaken with DPE by Steven Molino on 17 February 2023 as part of the audit scope. The purpose of this consultation was to obtain the DPE's input into the scope of the audit and to provide any comments that it felt should be accounted for during the audit. DPE expressed that, in addition to the requirements listed in the consent conditions, one of its main concerns was the quality of the road upgrades.

DPE sent by email on 1 March the following list of specific concerns:

- The road upgrades and compliances with conditions, staging approvals and built to design to specs and roads authority sign off/inspections etc. (in particular Pudman Creek Crossing, Grassy Creek Road, Yass Street in Rye Park, bypasses at Boorowa and Rye Park Cooks Hill Road)
- Traffic management and road use.
- Truck movements and vehicles use and compliance with approved routes
- Erosion and sediment control measures.
- Actions implemented for protection of surrounding environment and adjoining properties.
- Creek crossings in accordance with controlled activities and crossing designs guidelines.
- Compliance with commitments within all management plans.
- Retention, protection and management of native vegetation and aboriginal sites.
- Weed management.
- Complaints register and management.
- Obtaining other approvals such as construction certificates.
- Working on weekends and how they are ensuring they comply with the operating hours

DPE requested consultation with:

- Yass Valley Council
- Hilltops Council
- Upper Lachlan Shire Council
- Transport for NSW
- Environment Protection Authority
- Heritage NSW
- NSW Fisheries
- WaterNSW

Given the short notice to prepare for the audit the above organisations were contacted by telephone on 24 February prior to undertaking the site inspection. Only Heritage NSW and Yass Valley Council took or returned a call prior to the completion of the draft of this report.

A follow-up call was made to Hilltops Council on 5 April as it was clear from the audit that there are unresolved issues between Council and Tilt regarding road conditions and these were also an issue of concern to DPE.

The majority of roadworks associated with the Wind Farm are within Hilltops Local Government Area (LGA). The Council engineer expressed disappointment and frustration that there were issues associated with road upgrades, maintenance and repair which had not been resolved to the Council's satisfaction. He specifically noted that:

- The prolonged wet weather in 2022 had caused damage to many Council roads but in his opinion the roads around Rye Park Windfarm have been more badly damaged due to the heavy vehicle traffic, particularly concrete agitator trucks transporting along sections of public road between the batching plants and wind turbine sites
- Tilt is slow to repair damage to roads and that the size of potholes has created safety hazards on sections of road and members of the public are directing complaints to Council

- Council has been obliged to undertake repairs to ensure road safety is maintained on sections of road which are still the responsibility of Tilt
- There is inadequate road safety signage
- Contactors are not sticking to designated transport routes
- Council has refused to sign off on sections of road which Tilt is to hand back to Council because Council is of the opinion that there are construction defects which have not been addressed.

The engineer from Yass Valley Council, the LGA in which the Cooks Hill Road upgrade is taking place, described a different experience. He said that the road upgrade works were going quite well and Tilt keeps Council well informed as to what is happening with the project. He acknowledged that there are sections of Cooks Hill Road outside of the upgrade section which have been badly damaged but in his opinion that is due to the prolonged wet weather in 2022 and it is the Council's responsibility to repair those sections of road. His main concern was that the wind farms and other infrastructure projects in the region are making it difficult for the Council to source contractors to undertake road repairs and other works for Council.

The officer from NSW Heritage advised that she had been kept informed throughout the investigations and works program and her advice of 30/8/22 had only raised minor issues. She requested that the audit seek clarification about the management of 22 heritage sites associated with Modification 2. She advised that the report stated that 22 sites had been found, 2 would not be impacted and 18 had been subject to mitigation measures. She would like to know what happened to the other two sites. She also wanted to know what evidence there was of Aboriginal community involvement in the mitigation plan update.

## 2.2 Compliance Status Descriptors

The audit findings were graded in accordance with the following Department of Planning and Environment classifications (DPIE, June 2020): -

**Compliant:** The auditor has collected sufficient verifiable evidence to demonstrate that all elements of the requirement have been complied with within the scope of the audit.

**Non-Compliant:** The auditor has determined that one or more specific elements of the conditions or requirements have not been complied with within the scope of the audit.

**Not Triggered:** A requirement has an activation or timing trigger that has not been met at the time when the audit is undertaken, therefore an assessment of compliance is not relevant.

## 3 | Audit Findings

### 3.1 Approval and Document List

The Rye Park Wind Farm Project approval sets out the conditions required in the document Consolidated Conditions of Consent SSD-6693 MOD2 dd. 23 September 2022. The audit findings have been attached as a series of documents which reflect these requirements. Furthermore, the comments received from relevant authority consultation have been taken into consideration when completing these schedules.

The detailed audit findings are presented in the audit schedule in Appendix C.

### 3.2 Audit Summary

The audit considered a total of 76 conditions set out in the *Consolidated Conditions of Consent SSD-6693 MOD2 dd. 23 September 2022*, of which there were 175 separately assessable sub-conditions (items). The Rye Park Wind Farm project was found to be compliant with the approval consent requirements.

Of the 175 assessable sub-conditions, during the audit a total of 138 conditions were determined to be compliant and 37 conditions were not triggered. A total of 8 opportunities for improvement were noted.

At the completion of the audit, an exit meeting was held with relevant staff in attendance. The meeting consisted of informal discussions on the opportunities that had been noted during the audit. The opportunity for improvement with regard to the Heritage Management Plan only became apparent after the site audit and was not raised at the exit meeting.

Any evidence that was provided following the site inspection was incorporated into this audit where this evidence was deemed to have been available and accessible during the audit period.

The corrective actions determined through these processes form the basis of the recommended actions list in Table 3. The recommended actions relate to the opportunities for improvement. At the time of releasing the final report Tilt provided Molino Stewart with a response to the identified opportunities for improvement (dated 28 April 2023), identifying a schedule and status for addressing the relevant opportunities for improvement.

The systems which Tilt, Zenviron and Vestas have in place, the documentation reviewed and observations on site are all indicative that all reasonable and feasible measures are being implemented to minimise material harm to the environment from the construction of the plant. It is too early to comment on operational or decommissioning impacts. Nevertheless, there are opportunities for improvement in these systems. It is too early to comment on operational or decommissioning impacts.

The opportunities for improvement relate to hazardous materials storage and management, erosion and sediment controls, heritage management documentation, plant and equipment service history documentation, site inductions and the OSOM vehicle movement booking system. These are detailed in Table 2.

There have been several non-conformances with regard to light and heavy vehicle movements but these are less than 10 instances from thousands of vehicle movements in the past 12 months and corrective actions were taken as soon as Tilt became aware of each non-conformance. In the auditor's opinion these are neither non-compliances nor opportunities for improvement.

There remain issues of dispute between Tilt and Hilltops Council regarding the adequacy of the roadworks conducted by Tilt and the repair of road damage in that LGA.

The audit has found that Tilt has undertaken the roadworks as required by Condition 27 in Schedule 3 and for some of the works has had an independent engineer verify their compliance with the agreed design. Any ongoing dispute between the parties regarding the adequacy of the designs or the workmanship would need to be adjudicated by a road design engineer and are beyond the scope of this audit.

Similarly, Condition 28(b) in Schedule 3 requires that development related road damage be made good. Tilt and Hilltops Council cannot agree whether damage to the roads is related to the development or is a result of the prolonged wet weather in 2022. This too is beyond the scope of the audit to resolve.

### 3.3 Environmental Performance

This audit has found that the environmental performance of the Project is generally in compliance with the Conditions of Consent. Where issues were noted, the site personnel were receptive to incorporating the points for improvement that were noted.

#### 3.3.1 Physical extent of the development

During the site inspection, the physical extent of the development was reviewed against the approved plans and found to generally comply with the approved development boundary.

#### 3.3.2 Agency notices

There have been no agency notices issued to Tilt Renewables regarding Rye Park Wind Farm during this audit period.

#### 3.3.3 Non-compliances and Opportunities for Improvement

The opportunities for improvement are set out in Table 2. Mitigation measures have been summarised in Section 4.2.

Table 1 Opportunities for Improvement identified throughout the audit.

**OPPORTUNITIES FOR IMPROVEMENT**

Reference	Description
<p>2.15 OPERATION OF PLANT AND EQUIPMENT</p>	<p><b><u>THE CONDITION REQUIRES THAT:</u></b></p> <p><i>The Applicant must ensure that all plant and equipment used on site, or in connection with the development, is:</i></p> <p style="padding-left: 40px;"><i>(a) maintained in a proper and efficient condition</i></p> <p><b><u>OBSERVATIONS:</u></b></p> <ul style="list-style-type: none"> <li>• Checked prestart check list and service history documents documentation for vehicle #123. This machine had a blank service history. All others that were checked had complete documentation.</li> </ul> <p><b><u>OFI:</u></b></p> <ul style="list-style-type: none"> <li>• Ensure service history records of all plant and equipment are completed kept up to date.</li> </ul>
<p>3.18 (b) SOIL AND WATER            Operating Conditions</p>	<p><b><u>THE CONDITION REQUIRES THAT:</u></b></p> <p><i>(b) minimise any soil erosion associated with the construction and decommissioning of the development by implementing the relevant mitigation measures in Managing Urban Stormwater: Soils and Construction (Landcom, 2004), or its latest version.</i></p> <p><b><u>OBSERVATIONS:</u></b></p> <p>The typical ERSED controls and the specific ones for the compound are in accordance with the Blue Book and they have generally been implemented and maintained appropriately. However, there are locations where their implementation had not taken place at the time of the audit and other locations where significant maintenance is required. Specifically:</p> <ul style="list-style-type: none"> <li>• Some check dams along road drainage are being bypassed or are filled with sediment and need to be cleaned (See App D photos 1-3)</li> <li>• Some batters need stabilising including a steep batter at B15 hardstand (see App D Photo 4)</li> <li>• There is significant erosion caused by spillage from a standpipe at the northern batching plant (see App D photos 5-6)</li> <li>• Recently laid cable runs need seeding to establish ground cover (see App D photo 7)</li> <li>• Sediment fence repair is required south of B11 where the cable run is eroding and there is the potential for sediment to leave the site (see App D Photo 7).</li> </ul> <p><b><u>OFI:</u></b></p> <ul style="list-style-type: none"> <li>• Regularly maintain rock check dams</li> <li>• Stabilise batters and cable runs immediately after works are completed</li> <li>• Ensure standpipes do not overflow onto steep unstabilised slopes</li> <li>• Ensure sediment fencing is maintained downstream of disturbed surfaces.</li> </ul>

Reference	Description
3.18 (f) SOIL AND WATER Operating Conditions	<p><b><u>THE CONDITION REQUIRES THAT:</u></b></p> <p><i>(f) minimise any spills of hazardous materials or hydrocarbons, and clean up any spills as soon as possible after they occur.</i></p> <p><b><u>OBSERVATIONS:</u></b></p> <ul style="list-style-type: none"> <li>• some spill kits were observed to be depleted (See App D Photo 8)</li> <li>• several oil drums were stored outdoors without bunded pallets at compound at the intersection of Track7/1 and site entry track (see photos 9-10)</li> </ul> <p><b><u>OFI:</u></b></p> <p>Ensure all hazardous liquids are stored with bunding and that spill kits are replenished as they are used.</p>
3.25 (a) HERITAGE Heritage Management Plan	<p><b><u>THE CONDITION REQUIRES THAT:</u></b></p> <p><i>Prior to the commencement of construction, the Applicant must prepare a Heritage Management Plan for the development to the satisfaction of the Planning Secretary. This plan must:</i></p> <p><i>(a) be prepared by a suitably qualified and experienced person whose appointment has been endorsed by the Planning Secretary.</i></p> <p><b><u>OBSERVATIONS:</u></b></p> <ul style="list-style-type: none"> <li>• There appears to be inconsistencies between Rev G HMP which states 6 sites will be salvaged and the NGH clearance advice which states that 11 sites were salvaged.</li> </ul> <p><b><u>OFI:</u></b></p> <p>Update the Heritage Management Plan with the total number of sites salvaged.</p>
3.25 (b) HERITAGE Heritage Management Plan	<p><b><u>THE CONDITION REQUIRES THAT:</u></b></p> <p><i>(b) be prepared in consultation with Heritage NSW and Aboriginal stakeholders.</i></p> <p><b><u>OBSERVATIONS:</u></b></p> <ul style="list-style-type: none"> <li>• While the HMP has clearly been prepared in consultation with Heritage NSW and Aboriginal Stakeholders, the consultation log does not appear to have been updated to reflect the consultations with both that took place with regards to Mod 2.</li> </ul> <p><b><u>OFI:</u></b></p> <p>Update the Heritage Management Plan consultation log to reflect consultation taken in relation to Mod 2.</p>

Reference	Description
<p>3.25 (f) HERITAGE Heritage Management Plan</p>	<p><b><u>THE CONDITION REQUIRES THAT:</u></b></p> <p><i>(f) Following the Planning Secretary’s approval, the Applicant must implement the Heritage Management Plan.</i></p> <p><b><u>OBSERVATIONS:</u></b></p> <ul style="list-style-type: none"> <li>Vesta was not able to demonstrate it provided suitable heritage inductions to its staff and contractors who are working on site.</li> </ul> <p><b><u>OFI:</u></b></p> <p>Vestas to update its induction materials to include discussion of cultural heritage issues.</p>
<p>3.30 TRANSPORT Traffic Management Plan</p>	<p><b><u>THE CONDITION REQUIRES THAT:</u></b></p> <p><i>(b) include a drivers code of conduct that addresses:</i></p> <ul style="list-style-type: none"> <li><i>travelling speeds;</i></li> <li><i>procedures to ensure that drivers to and from the development adhere to the designated over-dimensional and heavy vehicle routes; and</i></li> <li><i>procedures to ensure that drivers to and from the development implement safe driving practices, particularly if using local roads through Boorowa, Jerrawa, Rye Park and Yass.</i></li> </ul> <p><b><u>OBSERVATIONS:</u></b></p> <ul style="list-style-type: none"> <li>Vestas did not provide evidence of the existence and use of an over dimensional and heavy vehicle booking system during the audit</li> </ul> <p><b><u>OFI:</u></b></p> <p>Implement an over dimensional and heavy vehicle booking system</p>
<p>5.1 ENVIRONMENTAL MANAGEMENT Environmental Management Strategy</p>	<p><b><u>THE CONDITION REQUIRES THAT:</u></b></p> <p><i>Following the Planning Secretary’s approval, the Applicant must implement the Environmental Management Strategy.</i></p> <p><b><u>OBSERVATIONS:</u></b></p> <ul style="list-style-type: none"> <li>Table 3.1 of the strategy states that all employees and subcontractors:           <ul style="list-style-type: none"> <li>complete a site induction prior to commencing works</li> <li>comply with site induction requirements for all aspects of environmental management</li> </ul> </li> <li>Induction records indicated that employees and site contractors are undertaking site inductions and that the Tilt and Zenviron inductions cover all aspects of environmental management. However, it was found that the Vestas induction material did not cover environmental aspects relevant to its employees and subcontractors.</li> </ul> <p><b><u>OFI:</u></b></p> <p>Vestas to update its induction materials to include discussion of relevant environmental issues.</p>

### 3.3.4 Previous Report Actions

The previous construction audit identified 2 non-compliances and recommended three actions in response (Trigalana Environment, May 2022 – sections 3.2 and 4.3). The proponent’s “Rye Park Wind Farm Independent Environmental Audit (5 May 2022) – Recommendations and Actions” dd. 05 May 2022 published on the project website shows actioning of these, as shown below:

Trigalana PVL audit recommendations	RPRE proposed action and timing	RPRE action status
<p><b>Schedule 2, Condition 2</b></p> <ul style="list-style-type: none"> <li>Review ongoing requirements for construction water and ensure water extraction is from sources that have been identified in the EIS</li> <li>Review “permit to pump” protocols to ensure the necessary approvals are in place prior to extracting construction water</li> </ul> <p><b>Schedule 3, Condition 18(b)</b></p> <p>While the observed practices for soil and water management are deemed appropriate to the current activities and risk profile, construction activities and earthworks will accelerate resulting in an increase in risk. It is therefore recommended that a Certified Professional in Erosion and Sediment Control (CPESC) is engaged to provide ongoing advice and to periodically review the implementation of the Erosion and Sediment Control Plans in the field to ensure ongoing compliance with the “Blue Book Requirements”</p>	<p>Water sourced from dams, council standpipes and when approved and in use, pending project bores (3) form the project water sourcing strategy, ensuring that adequate water is available for the development through construction as detailed in the LIS (including RPWF MOD 1, Response to Submissions Section 4.2.8 and 4.5.10, RPWF MOD 1 Amendment Report Aug 2020 (Updated Assessment Report)). RPREs Balance of Plant (BOP) contractor has engaged an industry specialist to ensure construction compliance with project water conditions and state regulations</p> <p>RPRE and its civil contractor are investigating the inclusion of a qualified CPESC to undertake periodic inspections of the site through construction to review soil and water management principals and implementation of control measures.</p> <p>Liaison has been undertaken with an industry specialist in Soil and Water Management to procure their services to undertake recommended inspections.</p>	<p>Ongoing through construction</p> <p>Ongoing through construction</p>
<p><b>Schedule 3, Condition 26</b></p> <p>While the measures and management actions implemented to date are deemed appropriate to achieve compliance with this condition. It is noted that the project is in the early stages of construction and the number of vehicles and organisations involved in the project will increase. These changes present a further risk of non-compliance and it is recommended that prior to the commencement of new phases of work involving different organisations, a change management process is implemented to ensure:</p> <ul style="list-style-type: none"> <li>New contractors involved in the project are acutely aware of their obligations relating to approved transport routes and the consequences if they do not comply</li> <li>Onboarding, tracking, and communication process are reviewed and shared with new contractors so they may implement existing procedures where appropriate</li> <li>Incidents and lessons learned from the project to date are shared with new contractors</li> </ul>	<p>A change management process is currently being implemented on site in anticipation of Supply and Install (S&amp;I) contractor mobilizing within the next couple of months. The process includes regular contractor interface meetings between RPRE, BOP and S&amp;I contractor to update and educate on current processes on site to maintain compliance including:</p> <ul style="list-style-type: none"> <li>WHS management meetings and principal contractors’ requirements relating to Traffic Management Plan (TMP) compliance</li> <li>Heavy vehicle access requirements and restrictions (Public road upgrades) <ul style="list-style-type: none"> <li>Heavy vehicle booking system</li> <li>Heavy vehicle monitoring</li> <li>Approved heavy vehicle access routes</li> </ul> </li> </ul> <p>Heavy vehicle compliance management is a regular topic in the project management team meetings, project daily prestart meetings and weekly toolbox talks. Workplace education sessions will continue when S&amp;I contractors mobilise to site.</p>	<p>Ongoing through public road upgrade works</p>

Source: <https://www.tiltrenewables.com/assets-and-projects/Rye-Park-Wind-Farm/project-approvals-and-applications/>

At the time of the current audit in February 2023:

- Approval had been obtained for the three project bores and these were in use in accordance with their approval conditions and their use is being monitored and recorded.
- A CPESC inspected the site in August 2022 and January 2023 and made recommendations which have been actioned. Observations from the February 2023 audit indicated that maintenance of erosion and sediment controls continues to be an ongoing maintenance issue with opportunities for improvement.
- Heavy vehicle movement compliance appears to be well managed with only a handful of non-conformances from thousands of vehicle movements and prompt corrective actions following those non-conformances. However, Vestas was unable to provide evidence of an OSOM booking system and this has been listed as an opportunity for improvement.

### 3.3.5 Complaints

The “Rye Park Wind Farm Monthly Complaints Register” as at end February 2023 which is available on the proponent’s public website <https://www.tiltrenewables.com/assets-and-projects/Rye-Park->

[Wind-Farm/project-approvals-and-applications/](#) shows 57 complaints were recorded in the period of this audit (26 February 2022 – 28 February 2023). The register shows that all but one of the complaints was consistently closed within 0-7 days. The register clearly points out there is one open complaint (dd. 04 August 2022) at the end of February, which is clearly flagged as “OPEN” in the register. The open complaint involves the removal of road materials which washed onto a property fronting Grassy Creek Road during a flood and the resolution of this issue remains a matter of ongoing negotiation with the property owner.

### 3.3.6 Incidents

One incident was recorded during the audit period and this was in relation to a flood eroding materials from the road formation and depositing them in a neighbouring property. It is questionable whether this constitutes an incident and, although a final resolution regarding the removal of material from the neighbouring property has not been resolved (refer to open complaint discussed in 3.3.5), there are not changes recommended to work practices as a result of this event.

### 3.3.7 Agency Consultation

Consultation with DPE was undertaken as part of the audit scope in line with the conditions of consent, as well as Yass Valley Council, Hilltops Council and Heritage NSW. Attempts to contact EPA, DPI Water, DPI Fisheries, Transport for NSW and Upper Lachlan Shire Council were not successful.

Section 2.1.4 summarises the issues raised during consultation and the audit specifically considered these issues.

## 4 | Recommendations

### 4.1 Non-compliance Summary

The audit considered a total of 76 conditions set out in the *Consolidated Conditions of Consent SSD-6693 MOD2* dd. 23 September 2022, of which there were 175 separately assessable sub-conditions (items). The Rye Park Wind Farm project was found to be compliant with the approval consent requirements. Of the 175 assessable sub-conditions, the audit found that a total of 37 conditions were not triggered, 138 conditions were determined to be compliant. No non-compliances were identified.

### 4.2 Corrective Actions and Opportunities for Improvement

There were 8 opportunities for improvement identified, as listed in Table 2. Table 3 consolidates those to 6 corrective actions and provides details of Tilt Renewables' responses to the recommended action and a timeline for action.

Table 2 Corrective actions list

<b>Actions:</b>		
Refer to the Action Item list attached for details. It is required that Tilt reviews the Action List and fills out the columns titled for 'Action to be Taken', 'By whom', and 'By when'. It is the responsibility of the Tilt to monitor the progress of the Action List items and ensure close out.		
Opportunities for Improvement: 8 which have been consolidated into 6 action items	Is Action List Closed off? <input type="checkbox"/> Yes <input type="checkbox"/> No	Signed (When Completed)

Item No.#	Action Item Description	Action to be Taken	By Whom	By When	Date Closed
<b>Corrective Actions against opportunities for improvement</b>					
1	Ensure service history records of all plant and equipment are completed kept up to date.				
2	Regularly maintain erosion and sediment controls and specifically: <ul style="list-style-type: none"> <li>Regularly maintain rock check dams</li> <li>Stabilise batters and cable runs immediately after works are completed</li> <li>Ensure standpipes do not overflow onto steep</li> </ul>				

Item No.#	Action Item Description	Action to be Taken	By Whom	By When	Date Closed
3	Ensure all hazardous liquids are stored with bunding and that spill kits are replenished as they are used.				
4	Update the Heritage Management Plan by: <ul style="list-style-type: none"> <li>• Listing the total number of sites salvaged to include those associated with Mod 2.</li> <li>• Reflecting in the consultation log all consultation taken in relation to Mod 2.</li> </ul>				
5	Vestas to update its induction materials to include discussion of relevant environmental issues including cultural heritage issues.				



Item No.#	Action Item Description	Action to be Taken	By Whom	By When	Date Closed
6	Implement an over dimensional and heavy vehicle booking system				

### 4.3 Limitations

The process by which this audit was conducted, including the sample of records selected and the method for examination used, followed established audit protocols and was in accordance with the best professional judgment of the auditor. It should be understood that the audit consisted of sample observations in a short span of time. Efforts were directed toward sampling all applicable facets of the environmental management systems and associated records, but it is important to recognise that such a sampling method can only support general conclusions and does not necessarily identify all potential problems.

## 5 | Conclusion

Molino Stewart undertook an independent environmental audit of the Rye Park Wind Farm Project. This document serves as the Independent Environmental Audit report for the additional IEA as directed by DPE, for the period 26 February 2022 to 28 February 2023.

The Project was audited against the following criteria:

- Consolidated Conditions of Consent SSD-6693 MOD2 dd. 23 September 2022.
- Post approval documents required under the Conditions of Approval (including environmental mitigation measures and recommendations provided in environmental management plans).
- Department of Planning Industry and Environment (DPIE) *Independent Audit Post Approval Requirements (2020)*.
- The feedback, requests, and/or comments of relevant agencies consulted.
- Any other relevant documentation, procedures or plans associated with the project.

Consultation with DPE was undertaken as part of the audit scope in line with the conditions of consent, as well as Yass Valley Council, Hilltops Council and Heritage NSW. Attempts to contact EPA, DPI Water, DPI Fisheries, Transport for NSW and Upper Lachlan Shire Council were not successful.

The audit reviewed the Rye Park Wind Farm Project's compliance via systems, documents, records, and procedures in relation to conditions of approval associated with the facility's operation.

The audit considered a total of 76 conditions set out in the *Consolidated Conditions of Consent SSD-6693 MOD2 dd. 23 September 2022*, of which there were 175 separately assessable sub-conditions (items). The Rye Park Wind Farm project was found to be compliant with the approval consent requirements. Of the 175 assessable sub-conditions, the audit found that a total of 37 conditions were not triggered and 138 conditions were determined to be compliant. No non-compliances were identified. There were 8 opportunities for improvement identified which were consolidated into 6 corrective actions.

There remain unresolved issues between Hilltops Council and Tilt Renewables regarding the quality of roadworks implemented as part of the project and the repair of road damage as a result of the project. The audit found that the required roadworks have been undertaken but is unable to comment on the adequacy of their quality. Similarly, it is beyond the scope of the audit to determine whether further road repairs are required due to damage caused by construction or whether that has been the result of the prolonged wet weather in 2022.

# Appendix A | Auditor Approval Documentation

Mr James Beckett  
Manager, Planning and Environment  
RYE PARK RENEWABLE ENERGY PTY LTD  
LEVEL 23 535  
BOURKE STREET  
MELBOURNE 3000

20/01/2023

Dear Mr Beckett

**Rye Park Wind - SSD-6693  
Independent Environmental Audit – Auditor Endorsement**

I refer to your request (SSD-6693-PA-78) submitted on the 16 January 2023 for the Secretary's approval of suitably qualified persons to undertake an Independent Environmental Audit (the Audit) and prepare the Audit report in accordance with Schedule 5 Conditions 12 and 13 of SSD 6693 (the Consent) for Rye Park Wind (the Project).

The Department has reviewed the nominations and information you have provided and is satisfied that these experts are suitably qualified and experienced. Consequently, I can advise that in accordance with Schedule 5 Condition 12 of the Consent and the Independent Audit Post Approval Requirements, the Secretary has agreed to the below two auditors from Molino Stewart;

1. Mr Steven Molino (Lead Auditor); and
2. Mr Roland van Amstel (Assistant to the Lead Auditor).

The Independent Audit must be prepared, undertaken and finalised in accordance with the Independent Audit Post Approval Requirements (IPARS). Failure to meet these requirements will require revision and resubmission.

The Department reserves the right to request an alternate auditor or audit team for future audits. Notwithstanding the agreement for the above listed audit team for this Project, each respective project approval or consent requires a request for the agreement to the auditor or audit team be submitted to the Department, for consideration of the Secretary. Each request is reviewed and depending on the complexity of future projects, the suitability of a proposed auditor or audit team will be considered.

Within 2 months of undertaking the independent audit site inspection, or otherwise as agreed by the Secretary, in accordance with Schedule 5 Condition 15, TILT Renewables is to submit a copy of the audit report to the Secretary together with its response to any recommendations contained in the audit report and a timetable to implement the recommendations. Prior to submitting the audit report to the Secretary, it is recommended that TILT Renewables review the report to ensure it complies with the relevant approval condition and IPARS.

Department of Planning and Environment



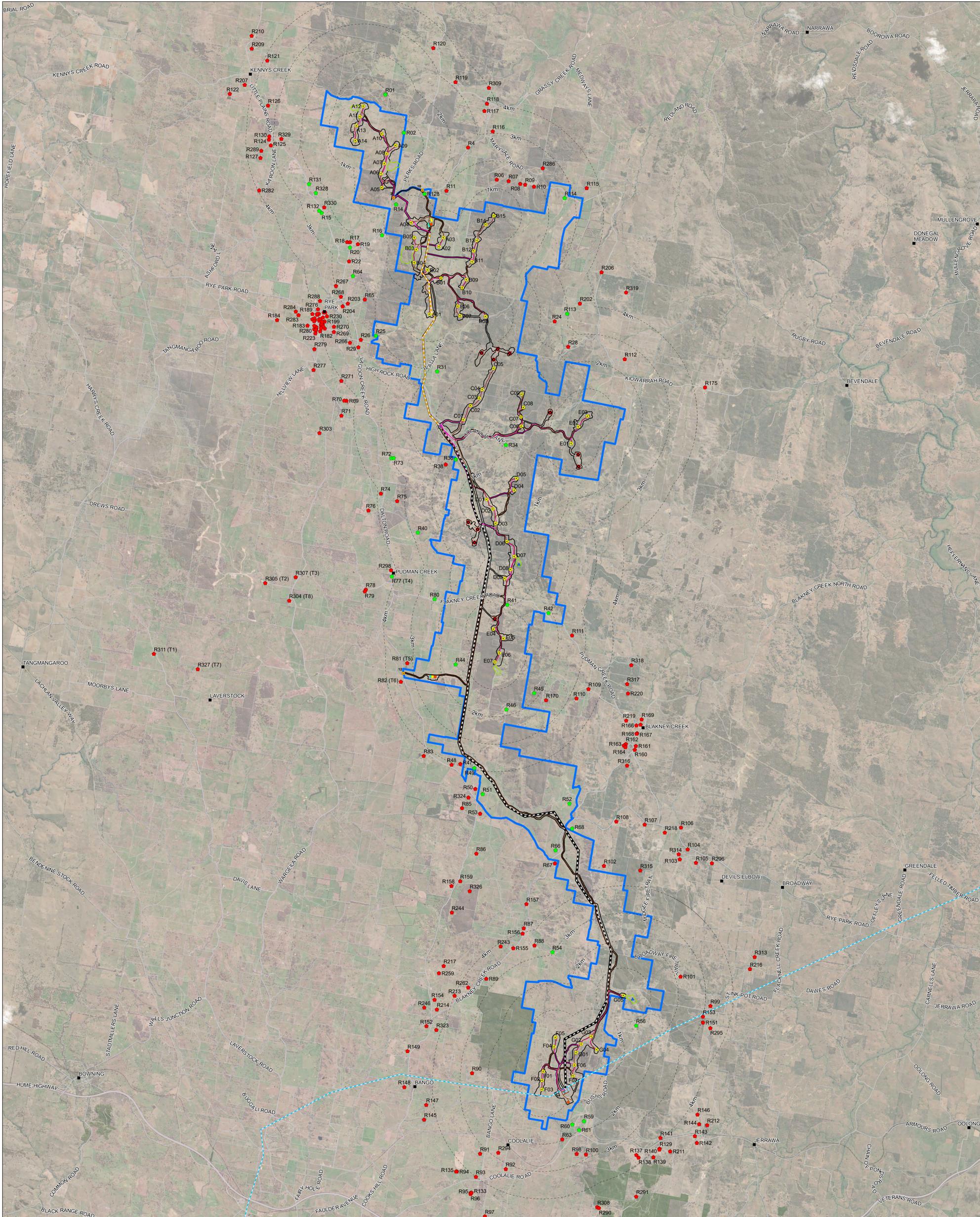
If you wish to discuss the matter further, please contact me 0429400261 or at [katrina.oreilly@planning.nsw.gov.au](mailto:katrina.oreilly@planning.nsw.gov.au)

Yours sincerely

A handwritten signature in black ink, appearing to read "K. O'Reilly".

Katrina O'Reilly  
Team Leader - Compliance  
Compliance  
As nominee of the Planning Secretary

# Appendix B | Plan of the Rye Park Wind Farm Project



Document Path: G:\GIS\Project Data\Development\NSW\RyePark\Maps\Working\RPWF\_ALI82A\_Final Pre-Construction Layout Plan\_A0\_20211013.mxd

**Legend**

- Wind Turbine Layout
- Deleted Turbines
- ▲ Permanent Met Masts
- Site Access Points
- Access Tracks
- Underground Cable (33kV)
- Transmission Line (33kV)
- Transmission Line (330kV)
- TransGrid Transmission Line (330kV)
- Temporary Batch Plants
- Temporary Construction Compounds
- Temporary Laydown Areas
- O&M Facility
- Connection Substation
- Collector Substation
- Development Corridor – Wind Farm
- Development Corridor – Permanent Met Masts

**Residences**

- Associated
- Non-associated

Date: 13/10/2021  
Version: A

0 1 2 3 4  
Kilometres

GDA 1994 MGA Zone 55  
1:45,000



# Final Pre-Construction Layout Plan

## Rye Park Wind Farm



## Appendix C | Independent Audit Table

Condition Number	Requirement	Evidence Used	Findings and Recommendations	Compliance Status
2.1 OBLIGATION TO MINIMISE HARM TO THE ENVIRONMENT	In addition to meeting the specific environmental performance criteria established under this consent, the Applicant must implement all reasonable and feasible measures to prevent and/or minimise any material harm to the environment that may result from the construction, operation, or decommissioning of the development.	Site Observations, Audit Interview, Document Review	The systems which Tilt, Zenviron and Vestas have in place, the documentation reviewed and observations on site are all indicative that all reasonable and feasible measures are being implemented to minimise material harm to the environment from the construction of the plant. It is too early to comment on operational or decommissioning impacts. There have been several non-conformances with regard to light and heavy vehicle movements but these are less than 10 from thousands of vehicle movements in the past 12 months and corrective actions were taken as soon as Tilt became aware of each non-conformance. There was a non-conformance with regard to hazardous materials storage observed during the audit but the infrastructure was in place for appropriate storage of hazardous materials and most were stored correctly. There are some opportunities for improvement in implementation of erosion and sediment controls and these are addressed elsewhere in the audit. There remain issues of dispute between Tilt and Hilltops Council regarding the adequacy of the roadworks conducted by Tilt in that LGA. However, the audit has found that Tilt has undertaken the roadworks as required by the conditions of consent and for some of the works has had an independent engineer verify their compliance with the agreed design. Any ongoing dispute between the parties regarding the adequacy of the designs or the workmanship would need to be adjudicated by a road design engineer and are beyond the scope of this audit.	Compliant
2.2 TERMS OF CONSENT	The Applicant must carry out the development: (a) generally in accordance with the EIS; and	Site Observations, Audit Interview, Document Review	The construction works are being generally carried out with the commitments within the EA. This as a project under Part 3A of the EP&A Act so an EA rather than an EIS was prepared.	Compliant
	(b) in accordance with the conditions of this consent.	Site Observations, Audit Interview, Document Review	The construction works are being carried out in accordance with the conditions of consent.	Compliant
2.3 TERMS OF CONSENT	If there is any inconsistency between the above documents, the most recent document must prevail to the extent of the inconsistency. However, the conditions of this consent must prevail to the extent of any inconsistency.	Site Observations, Audit Interview, Document Review	No inconsistencies were detected during the audit	Compliant
2.4 TERMS OF CONSENT	The Applicant must comply with any reasonable requirement/s of the Planning Secretary arising from the Department's assessment of: (a) any strategies, plans, programs, reviews, audits, reports or correspondence that are submitted in accordance with this consent;	Letters from DPE including of 9/01/23	The only letters from DPE have requested more information re the non-conformances and to direct that an additional independent audit of construction be undertaken (9/1). Each letter has been responded to by Tilt and this audit report is in response to the request for an audit.	Compliant
	(b) any reports, reviews or audits commissioned by the Department regarding compliance with this consent; and	Correspondence from DPE	No additional reports or reviews have been requested. This audit has been conducted in response to a request from DPE on 9/1/23	Compliant
	(c) the implementation of any actions or measures contained in these documents.	Correspondence from DPE	The actions arising from the previous audit have all been implemented	Compliant
2.5 LIMITS ON CONSENT Wind Turbines	The Applicant may construct, operate and replace or upgrade as necessary up to 77 wind turbines.	Final Layout Plans (Development Consent dated 1/10/21)	There have been no changes to the design layout since that time	Compliant
2.6 LIMITS ON CONSENT <del>Deleted</del>	Not applicable.			Not Triggered
2.7 LIMITS ON CONSENT Wind Turbine Height	No wind turbines may be greater than 200 metres in height (measured from above ground level to the blade tip).	Design drawings	0098-5803_V04 Weight Diemanetiosna nd CG of the nacelle- Enventus, A014-8341 Rye Park Tower Design drawing, 0104-8570_V00- Weight, dimensions, and cenfor of gravity of 79m Blade - total is 198.760m	Compliant
2.8 LIMITS ON CONSENT Micro-siting Restrictions	The Applicant may micro-site the wind turbines and ancillary infrastructure without further approval provided: (a) they remain within the development corridor shown on the figures in Appendix 2;	20221110 - Micrositing Checklist - RPWF	This indicates all are within corridor. Observed works in accordance with plans	Compliant
	(b) no wind turbine is moved more than 250 metres from the relevant GPS coordinates shown in Appendix 2;	20221110 - Micrositing Checklist - RPWF	checklist indicates E01 moved 10m south	Compliant
	(c) wind turbine numbers 11, 12, 48, 80, 83, 84, 85, 125, 143 and 150 are micro-sited to minimise (and if possible avoid) impacts on high conservation value vegetation, including hollow-bearing trees;	20221110 - Micrositing Checklist - RPWF, Letter from Tilt to DPE 4/11/2021, email from James Beckett 8/3/23	11-A06, 12-A05, 48 not constructed 80-D07, 83-D09, 84-E04, 85-E05, 125-G01, 143- not constructed, 150-D06. Letter 4/11/2021 from Tilt to DPE with the submission of final layout plans was accompanied by a compliance check list against all conditions. With regard to this condition, while not specifically providing information about each turbine location, it notes that two of the turbines (48 and 143) are not being built and mapping shows the new location of the others and a calculation of the overall reduction in vegetation impacts from all of the changes. It was not clear from the letter whether the total reduction was because two turbines were not being built or because of those that are being built the impacts are reduced. Followup email from James Beckett provided details for each individual turbine site which showed that each had been micro-sited to reduce total footprint and also clearing of vegeation of high conservation value	Compliant
	(d) the revised location of a wind turbine is at least 50 metres from existing hollow-bearing trees; or where the proposed turbine location is already within 50 metres of existing hollow-bearing trees, the revised location of the turbine is not moved any closer to the existing hollow-bearing trees; and	20221110 - Micrositing Checklist - RPWF, Letter from Tilt to DPE 4/11/2021, email from James Beckett 8/3/23	checklist shows E01 moved 10m south not worse with regard to hollow bearing trees. With regard to the turbines listed in condition 8(c), the checklist indicates none worse with regard to hollow bearing trees.	Compliant
	(e) the revised location of the wind turbine and/or ancillary infrastructure would not result in any non-compliance with the conditions of this consent.	20221110 - Micrositing Checklist - RPWF	The micrositing checklist shows that each of the relevant conditions has been considered and addressed for each micrositing decision.	Compliant
2.9 LIMITS ON CONSENT Staging of the Development	The Applicant may construct, operate and decommission the development in stages. Where staging of the development is proposed, the conditions of this consent are only required to be complied with at the relevant time and to the extent that they are relevant to the specific stage(s).	Staging Report,	Rev 5, changed timing of culvert upgrades	Compliant

Condition Number	Requirement	Evidence Used	Findings and Recommendations	Compliance Status
2.10 LIMITS OF CONSENT Final Layout Plans	Prior to the commencement of construction, the Applicant must submit detailed plans of the final layout of the development to the Planning Secretary, including:  (a) details on the micro-siting of any wind turbines and/or ancillary infrastructure; and	TILT Letter to DPE dated 4/11/21 with accompanying maps DPE email dated 12/11/211.	cited in first audit report	Compliant
	(b) the GPS coordinates of the wind turbines.	Pre-Construction Final Layout – Wind Turbine GPS Coordinates, dated October 2021		Compliant
2.11 NOTIFICATION OF DEPARTMENT	Prior to the commencement of the construction, operation and/or decommissioning of the development or the cessation of operations, the Applicant must notify the Department in writing of the date of commencement or cessation.  If the construction, operation and/or decommissioning of the development is to be staged, then the Applicant must:  (a) notify the Department in writing prior to the commencement of the relevant stage, and clearly identify the development that would be carried out during the relevant stage; and	Tilt renewables letters to the Planning Secretary on 30/11/21 and 31/1/22	cited in first audit report	Compliant
	(b) inform the local community and the Community Consultative Committee about the proposed staging plans.	Tilt Renewables letters to local Councils (Yass, Upper Lachlan, and Hilltops) dated 30/11/21 and 31/1/2022 Community Updates provided on 15/11/21	cited in first audit report	Compliant
2.12 STRUCTURAL ADEQUACY	The Applicant must ensure that:  (a) the wind turbines are constructed in accordance with the relevant standards, including the structural design requirements of IEC 61400-1 Wind turbines – Part 1: Design Requirements (or equivalent); and	ZX115-REP-0203- WTG Foundation Comps Report	Report by icubed consulting and Nick Stevens Consulting indicates that the turbines and their footings have been designed in accordance with AS1170.2-2021, AS1170.4-R2018, AS3600-2018, DNVGL-ST-0126, DNVGL-ST-C502, CEB-FIP- Model Code 2010, Eurocode 2, IEC 61400-1 and ASCE/AWEA RP2011	Compliant
	(b) all new buildings and structures, and any alterations or additions to existing buildings and structures, are constructed in accordance with the relevant requirements of the BCA.	Construction Certificates for buildings	Appointed Group DLA as a private certifier. Sighted construction certificates. GDL210448.6 certificate for the the operation and maintenance buildings. No construction is yet completed therefore no OCs issued yet.	Compliant
2.13 DEMOLITION	The Applicant must ensure that all demolition work on site is carried out in accordance with AS 2601-2001: The Demolition of Structures, or its latest version.	No demolition to date		Not Triggered
2.14 PROTECTION OF PUBLIC INFRASTRUCTURE	Unless the Applicant and the applicable authority agree otherwise, the Applicant must:  (a) repair, or pay the full costs associated with repairing, any public infrastructure that is damaged by the development; and	Correspondence with asset owner	Nacelle hit bridge on M31/23 overpass on 14/12/22. Email report to TfNSW 15/12/22. TfNSW responded on 20/3/23 after prompting to say no further action was required.	Compliant
	(b) relocate, or pay the full costs associated with relocating, any public infrastructure that needs to be relocated as a result of the development.	Correspondence with asset owner	It was necessary to relocate traffic light at the port of Newcastle to make way for OSOM vehicle. Letter of 12/12/22 from TfNSW approving the design. Copy of bank guarantee for for \$25,000 for the works	Compliant
2.15 OPERATION OF PLANT AND EQUIPMENT	The Applicant must ensure that all plant and equipment used on site, or in connection with the development, is:  (a) maintained in a proper and efficient condition; and	Databases with plant pre start checks and servicing records Stickers on vehicles	Zenviron's DoneSafe database has information about all plant and equipment on site including service history and weed and seed inspections. Reviewed PLA26666. Weed and seed inspection 17/2/23 and most recent service 4/5/22. Vestas has a plant and equipment register excel database. 0085-7901 Plan and Equipment Authorisation Checklist. 9.01 Site Plant and Equipment and Light Vehicle inspection- includes risk assessments and all paperwork - on i drive, One for each subble and filed by vehicle stickers number. Checked documentaiton for #123. Prestart check list. Service history documents. <b>This machine had a blank service history.</b> Checked #134 which had a complete service history. <b>Observed several vehicles on site which had stickers indicating they had pre-start checks (see photos).</b>	Compliant
	(b) operated in a proper and efficient manner.	observations	No vehicle was observed to be blowing smoke and no vehicle was observed to be idling when not in use	Compliant
2.16 UPDATING & STAGING OF STRATEGIES, PLANS OR PROGRAMS	With the approval of the Planning Secretary, the Applicant may submit any strategy, plan or program required by this consent on a progressive basis.  To ensure the strategies, plans or programs under the conditions of this consent are updated on a regular basis, the Applicant may at any time submit revised strategies, plans or programs to the Planning Secretary for approval.  With the agreement of the Planning Secretary, the Applicant may prepare any revised strategy, plan or program without undertaking consultation with all the parties referred to under the relevant condition of this consent.	Various plans and strategies on Rye Park Wind Farm website	Plans and strategies have clearly been updated periodically as evidenced by the version numbers on the Rye Park Wind Farm website. Each document includes DPE's endorsement letter for current version. Where relevant the DPE letter makes reference to consultation with interested parties or the document includes a letter of endorsement from the interested party.	Compliant

Condition Number	Requirement	Evidence Used	Findings and Recommendations	Compliance Status
2.17 COMMUNITY ENHANCEMENT	<p>Prior to the commencement of construction, unless the Planning Secretary agrees otherwise, the Applicant must enter into VPAs with the Councils in accordance with:</p> <p>(a) Division 6 of Part 4 of the EP&amp;A Act; and</p>	<p>Deed of Variation of Community Engagement Fund agreement (Upper Lachlan Shire Council dated 12/10/21)  Community Enhancement Fund Agreement – (Yass Valley Council dated 16/12/20)  Community Enhancement Fund Agreement – (Hilltops Council dated 31/8/21)</p>	<p>cited in first audit report</p>	<p>Compliant</p>
	<p>(b) the terms of the applicable offer as summarised in Appendix 3.</p>			<p>Compliant</p>

Condition Number	Requirement	Evidence Used	Findings and Recommendations	Compliance Status
3.1 ACQUISITION UPON REQUEST	<p>For a period of 5 years from the commencement of construction of any of the applicable wind turbines, the owner of the land listed in Table 1 may request the Applicant to acquire their land.</p> <p>Upon receiving a written request from this owner, the Applicant must acquire the land in accordance with the procedures in conditions 2 and 3 of schedule 4.</p> <p>However, this condition does not apply if the Applicant has an agreement with the owner of the relevant land in regard to the visual impacts associated with the development, and the Applicant has advised the Department in writing of the terms of this agreement</p>	<p>Tilt letter to landowners dated 2 Sept 21 and 3 Nov 21</p> <p>email request of 6/9/22 re Mr Washbrook's Property.</p> <p>Letter of offer 6/12/22</p>	<p>This relates to Lot 49 and 104 in Deposited Plan 754136. He has not accepted the offer and requested a second valuation on 22/2/23.</p> <p>Schedule 4 states that if after 1 month of the owner receiving the binding written offer above, the Applicant and owner cannot agree on the acquisition price of the land and/or the terms upon which the land is to be acquired, then either party may refer the matter to the Planning Secretary for resolution. This path has not been actioned yet by either party.</p> <p>No request has been received from the owner of Lot 75/54136.</p>	Compliant
3.2 VISUAL Visual Agreement	<p>The Applicant must not construct the applicable wind turbines listed in Table 2 unless the Applicant has an agreement with the owner(s) of the relevant land in regard to the visual impacts associated with the project, and the Applicant has advised the Department in writing of the terms of this agreement.</p>	previous audit results	Agreement entered into with owner of R56 (97,180 and 181 in DP754122 in relation to visual impacts of turbine G05 (previously known as 145)	Compliant
3.3 VISUAL Visual Impact Mitigation	<p>For a period of 5 years from the commencement of construction, the owner of any non-associated residence within 4 km of any wind turbine may ask the Applicant to implement visual impact mitigation measures on their land to minimise the visual impacts of the development on their residence (including its curtilage).</p> <p>Upon receiving such a written request from the owner of these residences, the Applicant must implement appropriate mitigation measures (such as landscaping and vegetation screening) in consultation with the owner.</p> <p>These mitigation measures must be reasonable and feasible, aimed at reducing the visibility of the wind turbines from the residence and its curtilage, and commensurate with the level of visual impact on the residence.</p> <p>All mitigation measures must be implemented within 12 months of receiving the written request, unless the Planning Secretary agrees otherwise.</p> <p>If the Applicant and the owner cannot agree on the measures to be implemented, or there is a dispute about the implementation of these measures, then either party may refer the matter to the Planning Secretary for resolution.</p>	Extract from Visual Mitigation Tracking Register	Tilt Renewables maintain a tracking register to manage the consultation and implementation for visual mitigations. A total of 10 requests for visual mitigation have been received since previous audit. 6 of these are from eligible residents. Implemented 5 and one on hold. Implemented for 2 ineligible. Requests for visual mitigation have not exceeded the 12-month period (from the date of receiving the written request) for implementation of the relevant measures.	Compliant
3.4 VISUAL Visual Appearance	<p>The Applicant must:</p> <p>(a) minimise the off-site visual impacts of the development;</p>	Design specification/paint schedule dated 29/4/21		Compliant
	<p>(b) ensure the wind turbines are:</p> <ul style="list-style-type: none"> <li>• painted off white/grey, unless otherwise agreed by the Planning Secretary; and</li> <li>• finished with a surface treatment that minimises the potential for glare and reflection;</li> </ul>	observations	turbines were observed to be an off white with a matt finish (see photos)	Compliant
	<p>(c) ensure the visual appearance of all ancillary infrastructure (including paint colours), blends in as far as possible with the surrounding landscape; and</p>	observations	ancillary infrastructure was not visually obtrusive	Compliant
	<p>(d) not mount any advertising signs or logos on wind turbines or ancillary infrastructure.</p>	observations	no advertising on the turbines	Compliant
3.5 VISUAL Lighting	<p>The Applicant must:</p> <p>(a) minimise the off-site lighting impacts of the development;</p>	Landrum and Brown Technical note 23/1/23 Emails from CASA dated 5/9/22 and 25/1/23	200 Candela lighting (rather than 2,000 Candela) on 40 selected turbines to be used to define windfarm perimeter. This has been approved by CASA	Compliant
	<p>(b) ensure that any aviation hazard lighting implemented is to the satisfaction of the CASA. If there is a dispute about the number of, or need for aviation hazard lighting to be implemented, then either party may refer the matter to the Planning Secretary for resolution;</p>	lighting not yet implemented		Not Triggered
	<p>(c) ensure that any aviation hazard lighting design complies with the National Airports Safeguarding Framework Guideline D and includes: all reasonable and feasible measures to minimise visual impact (such as being partially shielded, only operating at night and at times of reduced visibility, utilises an aircraft detection lighting system and turned on and off simultaneously), unless otherwise agreed by CASA and the Planning Secretary, do not compromise the lightings operational effectiveness, and are consistent with condition 5(B);</p>	Landrum and Brown Technical note 23/1/23 Emails from CASA dated 5/9/22 and 25/1/23	200 Candela lighting (rather than 2,000 Candela) on 40 selected turbines to be used to define windfarm perimeter. This has been approved by CASA	Compliant

Condition Number	Requirement	Evidence Used	Findings and Recommendations	Compliance Status
	(d) ensure that all external lighting associated with the development (apart from any aviation hazard and construction lighting): <ul style="list-style-type: none"> <li>• is installed as low intensity lighting (except where required for safety or emergency purposes);</li> <li>• does not shine above the horizontal;</li> <li>• uses best management practice for bat deterrence; and</li> <li>• complies with Australian/New Zealand Standard AS/NZS 4282:2019 – Control of Obtrusive Effects of Outdoor Lighting, or its latest version.</li> </ul>	Desing specifications	ZX115-REP-S0124 South Substation Outdoor Lighting Design report and ZX115-REP-N0124 North Substation Outdoor Lighting Design Dereport a. Fig 5.1 shows it is all downward facing. The O&M building and substations do not require lights on at night unless emergency access required.	Compliant
3.6 VISUAL Shadow Flicker	The Applicant must ensure that shadow flicker from operational wind turbines does not exceed 30 hours per year at any non-associated residence.	previous audit results	not yet operational but shadow flicker assessment has been completed based on turbine layouts. It concludes that the predicted shadow flicker impact does not exceed 30 hours per year for any non-associated residence.	Not Triggered
3.7 NOISE Construction & Decommissioning Noise	(a) minimise the construction or decommissioning noise of the development, including any associated traffic noise; and	OOHW procedures, noise monitoring results	Vestas is doing OOHV working on weekends and public holidays and sometimes beyond 6am. Working during dark and putting up some lighting. Sonus has done as assessment procedures for OOHVment of OOHV - Out of Hours Construction /Noise Assessment Turbine Erection October 2022. (S3200.4C2). There are procedures for OOHV and a check sheet to be completed. The check sheet for Sunday 19/2/23 was reviewed. Looked at images of the sound level recordings during the works. Shown to be within maximums permitted in Sonus report and therefore within limits of inaudibility. Readings between the works and the residences were generally below 40dB but one was greater than 42dB and they stopped works. Daily report 15107761 for 19/2/23 shows that install activity stopped by Vestas due to noise level exceeding OOHV limits.	Compliant
	(b) ensure that the noise generated by any construction or decommissioning activities is managed in accordance with the best practice requirements outlined in the Interim Construction Noise Guideline (DECC, 2009), or its latest version.	observation monitoring results	Sonus Report S3200.5C3 a report for noise for OOHVnoise monitoring is generally only being done when OOHV being done.	Compliant
3.8 NOISE Construction & Decommissioning Noise	Unless the Planning Secretary agrees otherwise, the Applicant must only undertake construction or decommissioning activities between:  (a) 7 am to 6 pm Monday to Friday;	OOHW procedures, noise monitoring results	Has to provide data. Has been doing out of hours works but no construction at night. Generally working all day Saturday and some Sundays. Civil works, batching plant and erection of cranes. Saw example for 3/10/22 labour day public holiday. 40dB at entrance to property	Compliant
	(b) 8 am to 1 pm Saturdays; and	OOHW procedures, noise monitoring results	Rye Park Wind Farm Neighbour Deed. This relates to the location of the batching plant on their property and operating OOHV. Sepcific conditions about accepting hours of operation and noise impacts.	Compliant
	(c) at no time on Sundays and NSW public holidays.	OOHW procedures, noise monitoring results	Vestas is doing OOHV working on Sundays and public holidays and is following OOHV procedures. There have been two complaints 71 and 72 re OOHV regarding construction traffic which is transient.	Compliant
3.9 NOISE Blasting	The Applicant may only carry out blasting on site between 9 am and 5 pm Monday to Friday and between 8 am to 1 pm on Saturday. No blasting is allowed on Sundays or public holidays.	Blast management plans and noise and vibration monitoring	there has been blasting in north Rye Park CA3/B14 . Orica report from 10/5 and 18/5 the blasting did not trigger the monitor. Sighted blast management plans. There is one for each blast campaign	Compliant
3.10 NOISE Blasting	The Applicant must ensure that any blasting carried out on site does not exceed the criteria in Table 2.	Blast management plans and noise and vibration monitoring	Blast Management Plan May 22. Management plan says airblast not to exceed 120dB and gound vibration not to exceed 10mm/s. Dunmore reports shows has not exceeded	Compliant
3.11 NOISE Operational Noise Criteria - Wind Turbines	The Applicant must ensure that the noise generated by the operation of wind turbines does not exceed the higher of 35 dB(A) or the existing background noise level (LA90 (10-minute) plus 5 dB(A) for each integer wind speed, measured at hub height, from cut-in to rated turbine generator power, at any non-associated residence.  Noise generated by the operation of the wind turbines is to be measured in accordance with the relevant requirements of the Department's Wind Energy: Noise Assessment Bulletin (2016) (or its latest version). The noise generated by the operation of the wind turbines must also be adjusted for tonality and low frequency noise in accordance with the Department's Wind Energy: Noise Assessment Bulletin (2016) (or its latest version).  However, these criteria do not apply if the Applicant has an agreement with the relevant owner/s of these residences to generate higher noise levels, and the Applicant has advised the Department in writing of the terms of this agreement.	not yet operational	not yet operational	not triggered
3.12 NOISE Operational Noise Criteria - Ancillary Infrastructure	The Applicant must ensure that the noise generated by the operation of ancillary infrastructure does not exceed 35 dB(A) LAeq(15 minute) at any non-associated residence.  Noise generated by the development is to be measured in accordance with the relevant requirements of the Noise Policy for Industry (2017) (or its equivalent).	not yet operational		Not Triggered
	Prior to commissioning of the turbines, the Proponent must prepare a Noise Management Plan to manage noise emissions from the operation of the development, to the satisfaction of the Planning Secretary. The Plan must include:	Rye Park Wind Farm Noise Management Plan Rev A Nov 2022 DPE Letter of 21/2/23	DPE has requested futher information by 10/3/23. As the windfarm is not yet operational and the audit was completed prior to DPE endorsement of the plan, this and subsequent parts to the condition have been deemed to be not triggered.	not triggered

Condition Number	Requirement	Evidence Used	Findings and Recommendations	Compliance Status
3.13 NOISE Noise Management Plan	(a) compliance monitoring within 3 months of operations, or the commencement of operation of a cluster of turbines if the development is to be staged, unless the Planning Secretary agrees otherwise, in accordance with the Department's Wind Energy Noise Assessment Bulletin (2016) (or its latest version) to determine whether the development is complying with the relevant conditions of this consent;	Rye Park Wind Farm Noise Management Plan Rev A Nov 2022	Section 7 proposes compliance monitoring within 3 months of commencement of operation	Not Triggered
	(b) description of the parameters and meteorological conditions which trigger the use of noise management mode and sector management;	Rye Park Wind Farm Noise Management Plan Rev A Nov 2022	Section 2	Not Triggered
	(c) an auditable process that compliance can be independently confirmed for the use of noise management mode and sector management;	Rye Park Wind Farm Noise Management Plan Rev A Nov 2022	Section 2	Not Triggered
	(d) procedures and corrective actions to be undertaken if non-compliance is detected;	Rye Park Wind Farm Noise Management Plan Rev A Nov 2022	Section 8	Not Triggered
	(e) provision of a copy of the compliance monitoring results to the Secretary and the EPA.	Rye Park Wind Farm Noise Management Plan Rev A Nov 2022	Section 7	Not Triggered
3.14 NOISE Noise Management Plan	Following the Planning Secretary's approval, the Applicant must implement the measures described in the Noise Management Plan.	not yet operational		Not Triggered
3.15 AIR	The Applicant must:  (a) minimise the off-site dust, fume and blast emissions of the development; and	observations	Site observations indicated that plant and equipment seemed to be operating efficiently without emitting visible exhaust fumes. Water carts were being used to wet down external road works and internal roads. However, it was dry weather and given the length of internal roads it was not possible to keep all internal roads wetted so some dust was being stirred up by traffic. There was no significant dust deposition on vegetation outside of the road formation and certainly that was not observed on roads external to the site where it was clear that water carts were being used to suppress dust where road works were taking place.	Compliant
	(b) minimise the surface disturbance of the site.	observations	Surface disturbance was not observed to extend beyond what was necessary for the road formations, turbine pads and ancillary works areas	Compliant
3.16 SOIL & WATER Water Supply	The Applicant must ensure that it has sufficient water for all stages of the development; and if necessary, adjust the scale of the development to match its available water supply.	observations, water cart spreadsheet, NGER data schedules	Internal project water is sourced through surface water runoff harvesting into existing farm dams as well as sediment basins constructed within the works areas. There are three groundwater bores on site which have NRAR approval. Water consumption is monitored through daily load sheets and captured in monthly NGER data. Standpipe at Boorowa weir provides water for public road works.	Compliant
3.17 SOIL & WATER Water Pollution	Unless an EPL authorises otherwise, the Applicant must comply with Section 120 of the POEO Act.	observations	no offsite discharge of polluted water was observed during inspection nor observation of materials placed in a location where they could wash offsite.	Compliant
3.18 SOIL & WATER Operating Conditions	The Applicant must:  (a) ensure the wind turbines and ancillary infrastructure, particularly any access roads on steep slopes, are designed, constructed and maintained to minimise any soil erosion;	observations	measures are in place around the site to minimise soil erosion.	Compliant
	(b) minimise any soil erosion associated with the construction and decommissioning of the development by implementing the relevant mitigation measures in Managing Urban Stormwater: Soils and Construction (Landcom, 2004), or its latest version;	observations, SWMP ZX115-DWG-1001 Typical Drawing for Erosion and Sediment controls ZX 115 - DWG - 20355 Ersed design for the main compound updated? Email to SEEC Environmental Consultants ersted in inductions and training training logs and content inspection records	The typical ERSED controls and the specific ones for the compound are in accordance with the Blue Book and they have generally been implemented and maintained appropriately. However, there are locations where there implementation had not taken place at the time of the audit and other locations where significant maintenance is required as detailed below. There is an emphasis on ERSED control in Zenviron training materials and there is a list of weekly inspections for ERSED control. Examples 14/5/22 and 22/1/23 were reviewed. They do focussed inspections ahead of rain events. A CPESC did some inspections in August and January and provided reports. Sighted (SEEC) 22000258-ESCR-02-20230131 which was the January 2023 report. This concluded that recommendations from August report had been implemented but made further recommendations. These included - ensure check dams along road drainage is not bypassed and silt in them gets removed, place jute mesh on steep drains, some batters need stabilising. During the site audit all of these observations were made along with the following: There is a steep batter at B15 hardstand which needs stabilising, there is significant erosion caused by spillage from a standpipe at the northern batching plant, recently laid cable runs need seeding to establish ground cover, sediment fencing is required south of B11 where the cable run is eroding and potential for sediment to leave the site. There have been complaints of mud tracked on roads but none was observed on the day of the inspection	Compliant
3.18 SOIL & WATER Operating Conditions	(c) ensure all waterway crossings are constructed in accordance with the: • Water Guidelines for Controlled Activities on Waterfront Land (NRAR, 2018), or its latest version; • Why Do Fish Need to Cross the Road? Fish Passage Requirements for Waterway Crossings (2004), or its latest version; and • Policy and Guidelines for Fish Habitat Conservation and Management Update (2013), or its latest version.	Observations, Correspondence with NRAR and Fisheries	CA7 Bridge 4 220405 RPFW Internal Bridges Construction Methodology shows design details including ESCP requirements. Emails from NRAR (14/9/21) and Fisheries (31/8/21) endorse the design of the crossings for internal roads. Field observations showed that crossing are being constructed in accordance with the design and flows under the bridges are not obstructed. Also observed culvert lining at a large culvert under Grassy Creek Road which had appropriate water quality control measures but also maintained flows under the road without obstructing fish passage.	Compliant
	(d) store and handle all dangerous or hazardous materials on site in accordance with AS1940-2004: The storage and handling of flammable and combustible liquids, or its latest version;	observations	There were lockable, banded cupboards and locked, banded containers for storing dangerous and hazardous materials at the two locations where these materials were observed being stored.	Compliant

Condition Number	Requirement	Evidence Used	Findings and Recommendations	Compliance Status
	(e) ensure the concrete batching plants and substation are suitably bunded; and	observations	Substation was not visited but northern concrete batching plant site was. <b>There was significant erosion caused by spillage from a standpipe</b>	Compliant
	(f) minimise any spills of hazardous materials or hydrocarbons, and clean up any spills as soon as possible after they occur.	observations, incident logs	No spill incidents recorded. There were spill kits where hazardous good stored but <b>some spill kits were observed to be depleted. There were also IBCs and oil drums stored outside on bunded pallets. However, several oil drums were stored outdoors without bunded pallets at compound at the intersection of Track7/1 and site entry track (see photos)</b>	Compliant
3.19 BIODIVERSITY Restrictions on Clearing and Habitat	The Applicant must:  (a) ensure that no more than: • 37.34 hectares of the Box Gum Woodland CEEC, including Box Gum Woodland derived grassland; and • 85.22 hectares of Golden Sun Moth habitat; is cleared for the development;	mapping and observations RPWF_DisturbanceRegister_2022_12_22	RPWFDisturbanceRegister provides a running tally of post construction clearances and forecast clearances against consent condition and SSD-6693 and EPBC2020/8837 limits. As at 22/11/22 no limits had been exceeded and forecast total clearing suggests that there would be surplus clearance allowances.	Compliant
	(b) avoid impacts to the Crimson Spider Orchid ( <i>Caladenia concolor</i> ) and Southern Pygmy Perch ( <i>Nannoperca australis</i> );	Reporting and correspondence	ecologists have not found Crimson Spider Orchid within areas to be disturbed. NRAR (14/9/21) and Fisheries (31/8/21) endorse the design of the crossings for internal roads.	Compliant
	(c) minimise: • the impacts of the development on hollow-bearing trees and termite mounds; • the impacts of the development on threatened bird and bat populations; and • the clearing of native vegetation and key habitat within the approved disturbance footprint.	Reporting and correspondence	Cited inspection reports for Civil areas 1-8 which provided recommendations regarding preclearance surveys. Looked at Cooks Hill Road preclearance summary where 42 habitat trees were identified but only 11 trees had to be removed of which one was HBT. Habitat Tree Felling Register Master excel spreadsheet. Give project total habitat trees in each CA and within PCT350 and elsewhere. Calculated the number of nest boxes required. Put up hollows salvaged from trees and have manufactured ones ready to be installed. Sighted photos of salvaged hollows and photos of some installed. Plus 147 net boxes required by calculation. First delivery of these were sighted	Compliant
3.20 BIODIVERSITY Biodiversity Offset	Prior to the commencement of construction, unless the Planning Secretary agrees otherwise, the Applicant must:  (a) update the baseline mapping of the vegetation and key habitat within the final disturbance area; and	previous audit results	Previous audit was silent on this. Rye Park Windfarm Calculation of Credit Liabilities Final (Umwlet October 2021). Includes the update mapping and letter from DPE 4/11/21 accepting that this satisfies this condition. This report was further updated in relation to Mod2 (Umwlet Sept 2022). Updated Biodiversity See appendix of revised BMP. The response to this by DPE was to approve MOD2 and add condition 21A below.	Compliant
	(b) calculate the biodiversity offset credit liabilities for the development in accordance with the Biodiversity Assessment Method under the NSW Biodiversity Offsets Scheme, in consultation with BCS, and to the satisfaction of the Department.	previous audit results	Previous audit relied upon Rye Park Windfarm, Confirmation of Credit Liabilities, October 2020 and DPE Letter of approval for Biodiversity Offset Credit Liability dated 4/11/21. Umwelt was appointed to calculate the credit liabilities. The credit liabilities report was approved by the Planning Secretary prior to the previous audit.	Compliant
3.21 BIODIVERSITY Biodiversity Offset	Within two years of the commencement of construction, unless the Planning Secretary agrees otherwise, the Applicant must retire the required biodiversity credits, to the satisfaction of BCS. The retirement of the credits must be carried out in accordance with the NSW Biodiversity Offsets Scheme, and can be achieved by:	BCT Confirmation of Payment 28/10/22	Biodiversity Conservation Trust statement confirming payment on 28/10/22 to satisfy statutory obligations under BC Act SSD-6693-MOD 2 and EPBC Act 2020-8837. Condition refers to BCS (Biodiversity, Conservation and Science Directorate) but BOS is now administered by BCT. This is sooner than two year anniversary of construction commencement 1/12/21.	Compliant
	(a) acquiring or retiring 'biodiversity credits' within the meaning of the Biodiversity Conservation Act 2016;	BCT Confirmation of Payment 28/10/23	payment made in lieu of this condition	Not Triggered
	(b) making payments into an offset fund that has been established by the NSW Government; or	BCT Confirmation of Payment 28/10/23	Biodiversity Conservation Trust statement confirming payment on 28/10/22 to satisfy statutory obligations under BC Act SSD-6693-MOD 2 and EPBC Act 2020-8837. Condition refers to BCS (Biodiversity, Conservation and Science Directorate) but BOS is now administered by BCT	Compliant
	(c) funding a biodiversity conservation action that benefits the entity impacted and is listed in the ancillary rules of the biodiversity offset scheme.	BCT Confirmation of Payment 28/10/24	payment made in lieu of this condition	Not Triggered
3.21A BIODIVERSITY Biodiversity Offset	Prior to the commencement of construction for works associated with Modification 2, the Applicant must retire biodiversity credits of a number and class specified in Table 1 and Table 2 below, unless the Planning Secretary agrees otherwise. The retirement of these credits must be carried out in accordance with the NSW Biodiversity Offsets Scheme and can be achieved by:	Rye Park Wind Farm - Modification 2 (With Cooks Hill Road) Sept 22. what was done for Mod 2 construction. Construction started Mod 2 construction	Umwlet report indicates only minor changes to previous project totals therefore do WAE survey and make adjustments then to how much paid. Section 6.33 Certificate dated 16 September 2022 indicates that the number of credits retired equals those listed in the table in the conditions.	Compliant
	(a) acquiring or retiring 'biodiversity credits' within the meaning of the Biodiversity Conservation Act 2016;	BCT Confirmation of Payment 28/10/23	payment made in lieu of this condition	Compliant
	(b) making payments into an offset fund that has been established by the NSW Government; or	BCT Confirmation of Payment 28/10/23	Biodiversity Conservation Trust statement confirming payment on 28/10/22 to satisfy statutory obligations under BC Act SSD-6693-MOD 2 and EPBC Act 2020-8837. Condition refers to BCS (Biodiversity, Conservation and Science Directorate) but BOS is now administered by BCT	Compliant
	(c) funding a biodiversity conservation action that benefits the entity impacted and is listed in the ancillary rules of the biodiversity offset scheme.	BCT Confirmation of Payment 28/10/24	payment made in lieu of this condition	Compliant
	Prior to the commencement of construction, the Applicant must prepare a Biodiversity Management Plan for the development to the satisfaction of the Planning Secretary. This plan must:  (a) be prepared in consultation with BCS; and	previous audit results 20220926-RPWF-BMP-Rev_G_approved.pdf	Biodiversity Management Plan, Rye Park Windfarm, Revision F dated 25/10/21, DPE Letter of approval dated 5/11/21. Rev G includes letters from DPE and DCCEEW approving the revised plan.	Compliant

Condition Number	Requirement	Evidence Used	Findings and Recommendations	Compliance Status	
3.22 BIODIVERSITY Biodiversity Management Plan	(b) include: <ul style="list-style-type: none"> <li>a description of the measures that would be implemented for: <ul style="list-style-type: none"> <li>minimising the amount of native vegetation clearing within the approved development footprint;</li> <li>minimising the loss of key fauna habitat, including tree hollows and termite mounds;</li> <li>minimising the impacts on fauna on site, including undertaking pre-clearance surveys;</li> <li>minimising the potential indirect impacts on threatened: <ul style="list-style-type: none"> <li>flora species, including the Crimson Spider Orchid (<i>Caladenia concolor</i>); and</li> <li>fauna species, including the Southern Pygmy Perch (<i>Nannoperca australis</i>), Golden Sun Moth (<i>Synemon plana</i>) and Superb Parrot (<i>Polytelis swainsonii</i>);</li> </ul> </li> <li>rehabilitating and revegetating temporary disturbance areas;</li> <li>protecting native vegetation and key fauna habitat outside the approved disturbance area;</li> <li>maximising the salvage of resources within the approved disturbance area – including vegetative and soil resources – for beneficial reuse (including fauna habitat enhancement) during the rehabilitation and revegetation of the site;</li> <li>collecting and propagating seed (where relevant);</li> <li>controlling weeds and feral pests;</li> <li>controlling erosion; and</li> <li>bushfire management;</li> </ul> </li> <li>a detailed program to monitor and report on the effectiveness of these measures.</li> </ul>	Vegetation disturbance permits	See Table 1-1 and cross reference to relevant sections of the document. 5.1.2 Once the detailed design has been finalised the construction contractor will complete a Vegetation Disturbance Permit (VDP). Sighted VDP40-Civil Areas 8 trenching and UG Cable install signed. 5.1.3 As part of this process, a suitably qualified ecologist will inspect the area proposed for clearing prior to the clearing with the key purpose being identifying key habitat features (i.e., HBTs, termite mounds and rocky areas) to minimise impact on those ecological features described above.	Compliant	
	Following the Planning Secretary's approval, the Applicant must implement the Biodiversity Management Plan.	20220926_-_RPWF_-_BMP_-_Rev_G_approved.pdf observations records	5.2.1 • All plant/machinery/vehicles will have minimum firefighting equipment including fire extinguishers. (observed) 5.5 An artificial hollow installation and monitoring program will be implemented, where artificial constructed nest boxes or salvaged hollows will be installed, or habitat augmentation will be implemented, at a target ratio of 1:1 in Superb Parrot habitat trees (i.e., one artificial hollow will be installed for every one Superb Parrot HBT removed as part of the Development), and a target of 1:4 for remaining habitat (i.e., one artificial hollow will be installed for every four remaining HBT removed as part of the Development). Observed photos of salvaged natural hollows as well as a delivery of artificial hollows.	Compliant	
3.23 BIODIVERSITY Bird and Bat Adaptive Management Plan	Prior to the commissioning of any wind turbines, the Applicant must prepare a Bird and Bat Adaptive Management Plan for the development in consultation with BCS, and to the satisfaction of the Planning Secretary. This plan must include:  (a) at least 12 months' worth of baseline data on threatened and 'at risk' bird and bat species and populations in the locality that could be affected by the development;	not operational		Not Triggered	
	(b) a detailed description of the measures that would be implemented on site for minimising bird and bat strike during operation of the development, including: <ul style="list-style-type: none"> <li>minimising the availability of raptor perches;</li> <li>prompt carcass removal;</li> <li>controlling pests; and</li> <li>using best practice methods for bat deterrence, including managing potential lighting impacts;</li> </ul>	not operational		Not Triggered	
	(c) trigger levels for further investigation of the potential impacts of the project on particular bird or bat species or populations;	not operational			Not Triggered
	(d) an adaptive management program that would be implemented if the development is having an adverse impact on a particular threatened or 'at risk' bird and/or bat species or populations; including the implementation of measures to: <ul style="list-style-type: none"> <li>reduce the mortality of those species or populations; or</li> <li>enhance and propagate those species or populations in the locality;</li> </ul>	not operational			Not Triggered
	(e) a detailed program to monitor and report on the effectiveness of these measures, and any bird and bat strikes on site; and	not operational			Not Triggered
	(f) provisions for a copy of all the raw data collected as part of the monitoring program to be submitted to BCS and the Planning Secretary.	not operational			Not Triggered
	Following the Planning Secretary's approval, the Applicant must implement the Bird and Bat Adaptive Management Plan.	not operational			Not Triggered

Condition Number	Requirement	Evidence Used	Findings and Recommendations	Compliance Status
3.24 HERITAGE Protection of Aboriginal Heritage Items	The Applicant must:  (a) ensure the development does not cause any direct or indirect impacts on the Aboriginal heritage Items identified in Table 1 in Appendix 5, or located outside the approved disturbance area;	previous audit results Third Addendum Aboriginal Cultural Heritage Assessment App F Aboriginal Heritage Items Heritage NSW letter 3/8/22 Management Plan Rev G Sept 22 DPE letter 18/11/22 NGH clearance advice of 22/2/22 interviews	The Previous audit relied upon Stage 1 salvage report. NGH letter of 22/2/22 is stage 2 salvage report. For this audit an interview with NSW Heritage officer referred to its letter of 3/8/22 and raised concern that Third addendum Aboriginal Cultural Heritage Assessment (ACHA) which accompanied Mod 2 application said 22 sites found, 2 not impacted and 18 mitigated. She felt it was not clear what is proposed for the other two sites. Also wanted evidence that consultation with Aboriginal community had taken place and that the heritage management plan had been updated. The NSW Heritage letter of 3/8/22 actually says there are 21 sites found in association with Mod 2 and did not raise the concerns expressed by the heritage officer. The letter requested that the Heritage Management Plan (HMP) be updated, that AHIMS site registrations be submitted using correct forms and consultation be undertaken with the Aboriginal community. Third addendum ACHA (Appendix E to the Mod 2 Application) indicates that two additional items were found as part of Mod 2 investigations and impacts on these can be avoided. App A of the ACHA is the consultation log but it has been redacted on the DPE website. App F, which accompanied the ACHA, lists these two new items among 12 items across the whole project where impacts will be avoided. This is an updated Table 1 in Appendix 5 as referred to in this condition. App F table 2 is an updated Table 2 in Appendix 5 as referred to in this consent condition and it lists 39 sites where impacts are to be minimised. App F Table 3 is an update of Table 3 in Appendix 5 and it lists 6 sites where salvage excavations will be required. Table 3 of the Rev G HMP (dated 27/9/22) lists a total of 35 sites which are to be avoided and which are referenced to Appendix 5 in the consent condition. The text associated with this table explains why several of the items have not been registered with AHIMS including one of the new items found in the MOD2 investigations. Table 4 lists 39 sites where the impacts are to be minimised and Table 5 lists six sites that are to be salvaged. Appendix D lists instances of communication with Heritage NSW and Aboriginal Communities. The latest date in the table is 31/5/2021. The HMP is consistent with the Third addendum ACHA The NGH clearance advice dated 22/2/22 only relates to the salvage undertaken as part of Stage 2. It indicates that 12 sites which were originally to be salvaged would now be avoided and lists 11 sites which were salvaged. It states that two Aboriginal organisations were invited to participate in the salvage work, one of which was able to attend.	Compliant
	(b) minimise any impacts on the Aboriginal heritage items identified in Table 2 in Appendix 5; and	previous audit results Third Addendum Aboriginal Cultural Heritage Assessment Heritage NSW letter 3/8/22 Management Plan Rev G Sept 22 DPE letter 18/11/22 NGH clearance advice of 22/2/22 interviews	<b>There appears to be inconsistencies between Rev G HMP and the NGH clearance advice with regard to:</b> - Salvaged sites - 6 of 11 - consultation with Aboriginal Groups - Mod 2 salvage must have included consultation post 31/5/21 Furthermore the HMP consultation log makes no reference to the NSW Heritage letter of 3/8/22	Compliant
	(c) minimise any impacts on the Aboriginal heritage items identified in Table 3 in Appendix 5, and carry out detailed test excavations and salvage of potential archaeological deposits at these sites if impacts cannot be avoided.	previous audit results Third Addendum Aboriginal Cultural Heritage Assessment Heritage NSW letter 3/8/22 Management Plan Rev G Sept 22 DPE letter 18/11/22 NGH clearance advice of 22/2/22 interviews		Compliant

Condition Number	Requirement	Evidence Used	Findings and Recommendations	Compliance Status
3.25 HERITAGE Heritage Management Plan	Prior to the commencement of construction, the Applicant must prepare a Heritage Management Plan for the development to the satisfaction of the Planning Secretary. This plan must:  (a) be prepared by a suitably qualified and experienced person whose appointment has been endorsed by the Planning Secretary;	previous audit results Third Addendum Aboriginal Cultural Heritage Assessment Heritage Heritage NSW letter 3/8/22 Management Plan Rev G Sept 22 DPE letter 18/11/22 NGH clearance advice of 22/2/22 interviews	Previous audit found an endorsed HMP has been prepared prior to construction. The current revision (G) is being used on site and was endorsed by DPE 18/11/22. Changes were made to reflect modification to development consent (MOD2) and a variation to the EPC approval (2020/8837). It was prepared by a suitably qualified and experienced person.  There appears to be inconsistencies between Rev G HMP which states 6 sites will be salvaged and the NGH clearance advice which states that 11 sites were salvaged.	Compliant
	(b) be prepared in consultation with Heritage NSW and Aboriginal stakeholders;	previous audit results Third Addendum Aboriginal Cultural Heritage Assessment Heritage Heritage NSW letter 3/8/22 Management Plan Rev G Sept 22 DPE letter 18/11/22 NGH clearance advice of 22/2/22 interviews	While it has clearly been prepared in consultation with Heritage NSW and Aboriginal Stakeholders, the consultation log does not appear to have been updated to reflect the consultations with both that took place with regards to Mod 2. See details above.	Compliant
	(c) include updated baseline mapping of the heritage items within and adjoining the development disturbance area;	previous audit results Third Addendum Aboriginal Cultural Heritage Assessment Heritage Heritage NSW letter 3/8/22 Management Plan Rev G Sept 22 DPE letter 18/11/22 NGH clearance advice of 22/2/22 interviews	It includes this mapping	Compliant
	(d) include a description of the measures that would be implemented for: • protecting Aboriginal heritage items outside the project disturbance area; • minimising and managing the impacts of the development on heritage items within the disturbance area, including: - test excavations and salvage (if required) at the Aboriginal heritage items identified in Table 3 in Appendix 5; and - a strategy for the long term management of any Aboriginal heritage items or material collected during the test excavation or salvage works; • a contingency plan and reporting procedure if: - Aboriginal heritage items outside the approved disturbance area are damaged; - previously unidentified Aboriginal heritage items are found; or - Aboriginal skeletal material is discovered; • ensuring workers on site receive suitable heritage inductions prior to carrying out any development on site, and that records are kept of these inductions; and • ongoing consultation with Aboriginal stakeholders during the implementation of the plan;	previous audit results Third Addendum Aboriginal Cultural Heritage Assessment Heritage Heritage NSW letter 3/8/22 Management Plan Rev G Sept 22 DPE letter 18/11/22 NGH clearance advice of 22/2/22 interviews	The HMP includes a description of all of these measures.	Compliant
	(e) a program to monitor and report on the effectiveness of these measures and any heritage impacts of the project. Following the Planning Secretary's approval, the Applicant must implement the Heritage Management Plan.	previous audit results Third Addendum Aboriginal Cultural Heritage Assessment Heritage Heritage NSW letter 3/8/22 Management Plan Rev G Sept 22 DPE letter 18/11/22 NGH clearance advice of 22/2/22 interviews	The HMP includes a monitoring program	Compliant
	(f) Following the Planning Secretary's approval, the Applicant must implement the Heritage Management Plan.	previous audit results Third Addendum Aboriginal Cultural Heritage Assessment Heritage Heritage NSW letter 3/8/22 Management Plan Rev G Sept 22 DPE letter 18/11/22 NGH clearance advice of 22/2/22  interviews Induction records and induction materials	Sighted two salvage reports. Examples of Zenviron drawings showing locations. Also fenced areas were observed on site. Tilt and Zenviron inductions included coverable of cultural heritage. Vestas was not able to demonstrate it provided suitable heritage inductions to its staff and contractors who are working on site.	Compliant

Condition Number	Requirement	Evidence Used	Findings and Recommendations	Compliance Status
3.26 TRANSPORT Designated Heavy and Over-Dimensional Vehicle Routes	<p>The Applicant must ensure that all over-dimensional and heavy vehicle access to and from the site is via Trucking Yard Road, Dillon Street, Long Street, Boorowa-Rye Park Road, Grassy Creek Road, Yass Street, Gunning Road and Rye Park-Dalton Road and:</p> <ul style="list-style-type: none"> <li>Route 1 - Port of Newcastle to project site via Gunning (using the Port of Newcastle via Selwyn Street, Industrial Drive, George Street, Maitland Road, New England Highway, John Renshaw Drive, M1, Pennant Hills Road, M2, M7, Hume Highway and Lachlan Valley Way); or</li> <li>Route 2 - Port of Newcastle to project site via Dubbo - for tower sections only (using the Port of Newcastle via Selwyn Street, Industrial Drive, George Street, Maitland Road, New England Highway, John Renshaw Drive, Hunter Expressway, Golden Highway, Putty Road, Denman Road, Bengalla Road, Wybong Road, Boothenna Road, Troy Bridge Road, Bunglegumbe Road, Mitchell Highway, Manildra Street, Derribong Avenue, Algalah Street, Tomingley Road, Newell Highway, Thomas Street, Moulden Street, Henry Parkes Way, Westlime Road, Hartigan Avenue, Goldfields Way, Kitchener Road, Bundawarrah Road, Milvale Road, Waratah Street, Burley Griffin Way, Hume Highway and Lachlan Valley Way); or</li> <li>Route 3 - Port Kembla to project site (using Port Kembla via Tom Thumb Road, Masters Road, M1, Picton Road, Hume Highway and Lachlan Valley Way),</li> </ul> <p>unless the Planning Secretary agrees otherwise.</p>	<p>interviews site observations complaints register HV Logistics Booking Portal uploaded Subcontractor delivery driver transport route acknowledgement Correspondence to contractors</p>	<p>Clear signage has been implemented at key access/egress points to advise drivers of the correct route and the consequences of not complying with the requirements. All heavy vehicle movements were required to be registered via the HV booking portal which is managed by the Contracts Manager but heavy vehicle movements to site have dropped off and it is no longer in use. There is now a booking system and records for OSOM. Sighted outputs from vehicle tracking system showing vehicles using correct route but Vestas was unable to provide evidence of a booking system and records for OSOM. RPWF Site Access Instructions V2.pdf this document provides site access instructions includes a map of where heavy vehicles can and cannot enter site and also which road no vehicles are allowed to travel along and details of HV detour around Boorowa.</p>	Compliant
3.27 TRANSPORT Road Upgrades	<p>The Applicant must implement the road upgrades identified in Appendix 6 in accordance with the relevant timing requirements unless otherwise agreed to by the Planning Secretary, to the satisfaction of the relevant roads authority.</p> <p>If there is a dispute about the road upgrades to be implemented, or the implementation of these upgrades, then either party may refer the matter to the Planning Secretary for resolution.</p>	<p>previous audit Road auditor's report Correspondence with Councils</p>	<p>Previous audit found it compliant but Mod2 had included Cooks Hill Road works. Councils have reviewed drawings of proposed works and signed off on what work needed to be done. There have been complaints from Hill Tops Shire regarding the adequacy of the road works and the damage done to Council roads due to construction traffic. Zenviron paid for a third party road auditor to inspect the works with Council during the upgrades on a weekly basis every week for 12 weeks. Sighted audit report 9/6/2022 and report 11/14/7/22. Section 3 of the latter says that the roads are practically completed for OSOM. The outstanding items would not have contributed to the road failure during the rain event. Consultation with the Hilltops Council engineer makes it clear that Hilltops Council is not satisfied with the implementation of the road upgrades and this has not been resolved between the parties. This disagreement has not gone to dispute resolution with the Planning Secretary.</p>	Compliant
3.28 TRANSPORT Road Maintenance	<p>The Applicant must, to the satisfaction of the relevant roads authority:</p> <p>(a) prepare a dilapidation survey of the designated over-dimensional and heavy vehicle route:</p> <ul style="list-style-type: none"> <li>prior to the commencement of any construction or decommissioning works other than pre-construction minor works;</li> <li>within 1 month of the completion of any construction or decommissioning works other than pre-construction minor works;</li> </ul> <p>(b) rehabilitate and/or make good any development-related damage:</p> <ul style="list-style-type: none"> <li>identified during the carrying out of the relevant construction and/or decommissioning works if it could endanger road safety, as soon as possible after the damage is identified but within 7 days at the latest; and</li> <li>identified during any dilapidation survey carried out following the completion of the relevant construction and/or decommissioning works within 2 months of the completion of the survey, unless the relevant roads authority agrees otherwise,</li> </ul>	<p>previous audit</p> <p>Correspondence with Councils</p>	<p>previous audit found that dilapidation survey had been done and councils accepted.</p> <p>Evidence was sighted that the roads have been progressively repaired but it would appear that there is a difference of opinion between Hilltops Council and Tilt as to whether all of the road damage has been caused by construction traffic or whether the prolonged wet weather in 2022 was responsible for the damage. This remains a matter of dispute which is unresolved between Tilt and Hilltops Council</p>	Compliant

Condition Number	Requirement	Evidence Used	Findings and Recommendations	Compliance Status
3.29 TRANSPORT Unformed Crown Roads	The Applicant must ensure any unformed Crown road reserves affected by the development are maintained for future use, unless otherwise agreed with the Department's Crown Lands Division.	previous audit results		Compliant
3.30 TRANSPORT Traffic Management Plan	Prior to the commencement of construction, the Applicant must prepare a Traffic Management Plan for the development in consultation with TNSW and the Councils, and to the satisfaction of the Planning Secretary. This plan must:  (a) detail the measures that would be implemented to: • minimise the traffic safety impacts of the development and disruptions to local road users during the construction and decommissioning of the development, including: - temporary traffic controls, including detours and signage; - notifying the local community about development-related traffic impacts; - minimising potential conflict between development-related traffic and: • rail services; • stock movements; and • school buses, in consultation with local schools; - ensuring development-related traffic does not track dirt onto the public road network; - ensuring loaded vehicles entering or leaving the site have their loads covered or contained; - providing sufficient parking on site for all development-related traffic; - responding to any emergency repair requirements or maintenance during construction and/or decommissioning; and • a traffic management system for managing over-dimensional vehicles; • comply with the traffic conditions in this consent;	Previous audit Traffic Management Plan Rev 4 June2022 DPE letter 11/8/22	changes to the TMP relate to changes to the timing of two proposed Road Upgrades. The TMP proposes Transport Code of Conduct (sighted), visible signage in the field advising of key intersections (sighted), vehicle maintenance records (sighted), <b>heavy vehicle booking system (not sighted)</b> , community notifications (sighted) and S138 local road approval permits (sighted).	Compliant
	(b) include a drivers code of conduct that addresses: • travelling speeds; • procedures to ensure that drivers to and from the development adhere to the designated over-dimensional and heavy vehicle routes; and • procedures to ensure that drivers to and from the development implement safe driving practices, particularly if using local roads through Boorowa, Jerrawa, Rye Park and Yass;	Previous audit Traffic Management Plan Rev 4 June2022 DPE letter 11/8/22	changes to the TMP relate to changes to the timing of two proposed Road Upgrades. The TMP proposes Transport Code of Conduct (sighted), visible signage in the field advising of key intersections (sighted), vehicle maintenance records (sighted), <b>over dimensional and heavy vehicle booking system (not sighted)</b> , community notifications (sighted) and S138 local road approval permits (sighted).	Compliant
	(c) include a detailed program to monitor and report on the effectiveness of these measures and the code of conduct. Following the Planning Secretary's approval, the Applicant must implement the Traffic Management Plan.	Previous audit Traffic Management Plan Rev 4 June2022 DPE letter 11/8/23	changes to the TMP relate to changes to the timing of two proposed Road Upgrades. The TMP proposes Transport Code of Conduct (sighted), visible signage in the field advising of key intersections (sighted), vehicle maintenance records (sighted), <b>over dimensional and heavy vehicle booking system (not sighted)</b> , community notifications (sighted) and S138 local road approval permits (sighted).	Compliant
	Following the Planning Secretary's approval, the Applicant must implement the Traffic Management Plan.	Previous audit complaints register observations Traffic Management Plan Rev 4 June2022 DPE letter 11/8/22	complaint 56 and 58, 63 re mud tracked across road and 58 and 59 re damage to public road complaint 65 LV exited onto Blakney Creek Road South - confirmed and raised as NCR with DPE. Letter from Tilt to DPE (RPWF-LET-078-DPE Non-Compliance) reporting 21/7/22 Heavy vehicle using unapproved route 16 Jan DPE letter undated and also not in complaints register. Letter from Tilt to DPE (RPWF-LET-140-DPE Non-Compliance) 23/1/22	Compliant
3.31 AVIATION Notification of Aviation Authorities	Prior to the construction of any wind turbine or wind monitoring mast, the Applicant must provide the following information to CASA, Airservices Australia, and the RAAI (together the authorities):  (a) co-ordinates in latitude and longitude of each wind turbine and mast;	CASA correspondence	this data is being provided progressively as each turbine is being constructed. There is a master spreadsheet Tall Structures Report Progress for Air Services Australia. This is progressively updated with turbine and meteorological mast locations and height data, Sighted email to CASA dated 25/8/22 from Grant Wallace to CASA, 25/8/22 to Dept of Defence, 25/8/22 to Air Services Australia. Sighted series of emails upating status of construction but no updates regarding the horizontal co-ordinates from as built survey because latter not completed.	Compliant
	(b) the final height of each wind turbine and mast in Australian Height Datum;	CASA correspondence	Three have all blades on them. This data is in table	Compliant
	(c) ground level at the base of each wind turbine and mast in Australian Height Datum; and	CASA correspondence	this data is in table	Compliant
	(d) details of any proposed aviation hazard lighting.	Landrum and Brown Technical note 23/1/23 Emails from CASA dated 5/9/22 and 25/1/23	200 Candela lighting (rather than 2,000 Candela) on 40 selected turbines to be used to define windfarm perimeter. This has been approved by CASA	Compliant
3.32 AVIATION Notification of Aviation Authorities	Within 30 days of the practical completion of the construction of any wind turbine or mast, the Applicant must:  (a) provide confirmation to the authorities that the information that was previously provided remains accurate; or	no wind turbine was completed at the time of audit		Not Triggered
	(b) update the information previously provided.	no wind turbine was completed at the time of audit		Not Triggered

Condition Number	Requirement	Evidence Used	Findings and Recommendations	Compliance Status
3.33 RADIOCOMMUNICATIONS Notification of Aviation Authorities	If the development results in the disruption to any radiocommunications services (including point-to-point microwave links) in the area, then the Applicant must make good any disruption to these services as soon as possible following the disruption, but no later than 1 month following the disruption of the service unless the relevant service provider or user or Planning Secretary agrees otherwise.	this conditions relates to commissioning		Not Triggered
3.34 HAZARDS Emergency Plan	Prior to commencing construction, the Applicant must develop and implement a comprehensive Emergency Plan and detailed emergency procedures for the development, to the satisfaction of FRNSW and the RFS. The Applicant must keep two copies of the plan on-site in a prominent position adjacent to the site entry points at all times. The Plan must:  (a) be consistent with the Department's Hazardous Industry Planning Advisory Paper No. 1, 'Emergency Planning' and RFS's Planning for Bushfire Protection 2019 (or equivalent);	Emergency Plan Rye Park Wind Farm Rev D Sep 22 DPE and emergency services responses	Emergency Plan Rye Park Wind Farm Rev D Sep 22 reflects a change associated with sentence saying minister had approved Mod 2. Accordingly Tilt wrote to each of the emergency services (emails sighted) sending updated plan for information but not seeking endorsement because of the minor amendment that made. No responses from each emergency service.	Compliant
	(b) identify the fire risks and hazards and detailed measures for the development to prevent or mitigate fires igniting;	Emergency Plan Rye Park Wind Farm Rev D Sep 22		Compliant
	(c) list works that should not be carried out during a total fire ban;	Emergency Plan Rye Park Wind Farm Rev D Sep 23		Compliant
	(d) include availability of fire suppression equipment, access and water;	Emergency Plan Rye Park Wind Farm Rev D Sep 24		Compliant
	(e) include procedures for the storage and maintenance of any flammable materials;	Emergency Plan Rye Park Wind Farm Rev D Sep 25		Compliant
	(f) detail access provisions for emergency vehicles and contact details for both a primary and alternative site contact who may be reached 24/7 in the event of an emergency;	Emergency Plan Rye Park Wind Farm Rev D Sep 26		Compliant
	(g) include a figure showing site infrastructure, Asset Protection Zone and the fire fighting water supply;	Emergency Plan Rye Park Wind Farm Rev D Sep 27		Compliant
	(h) include location of hazards (physical, chemical and electrical) that may impact on fire fighting operations and procedures to manage identified hazards during fire fighting operations;	Emergency Plan Rye Park Wind Farm Rev D Sep 28		Compliant
	(i) include details of the location, management and maintenance of the Asset Protection Zone and who is responsible for the maintenance and management of the Asset Protection Zone;	Emergency Plan Rye Park Wind Farm Rev D Sep 29		Compliant
	(j) include bushfire emergency management planning; and	Emergency Plan Rye Park Wind Farm Rev D Sep 30		Compliant
(k) include details of how the RFS would be notified, and procedures that would be implemented, in the event that: • there is a fire on-site or in the vicinity of the site; • there are any activities on site that would have the potential to ignite surrounding vegetation; or • there are any proposed activities to be carried out during a bushfire danger period.	Emergency Plan Rye Park Wind Farm Rev D Sep 31		Compliant	
Following approval, the Applicant must implement the Emergency Plan.	interviews records of drills 5.2 induction records incident records toolbox at start of fire season		Compliant	
3.35 SAFETY	The Applicant must:  (a) prepare a Safety Management System for the development in accordance with the Department's Hazardous Industry Planning Advisory Paper No. 9, 'Safety Management' prior to commissioning any wind turbines on site; and	commissioning has not commenced		Not Triggered
	(b) implement, and if necessary update, the system over the remaining life of the development.	commissioning has not commenced		Not Triggered

Condition Number	Requirement	Evidence Used	Findings and Recommendations	Compliance Status
3.36 WASTE	The Applicant must: (a) minimise the waste generated by the development;	NGER reporting register and EMP	Vestas EMP V02 has section on waste management. Vestas rule is no plastic bottles on site. Has recycling bins. Timber waste from crates is used cartage are sent to recyclers. Zenviron - Minimising cut to fill and balance. Sustainability Implementation Progress Report July-September 2022. Concrete mix is has slag blend, quarried road material turbines built off site and assembled. recycling leftover concrete on site. Felled vegetation has been used on site for mulch or habitat.	Compliant
	(b) classify all waste generated on site in accordance with the EPA's Waste Classification Guidelines 2014 (or its latest version);	waste classification records	Appendix B HSE Monthly Contractor Report - Zenviron Feb 2023. Includes a fuel and waste reporting tab.	Compliant
	(c) store and handle all waste generated on site in accordance with its classification;	observation	waste oils stored in drums on banded pallets, waste concrete stockpiled for reused, other wastes sorted and stored in skips.	Compliant
	(d) not receive or dispose of any waste on site; and	observation	no evidence of wastes being received on site	Compliant
	(e) ensure all waste is disposed of at appropriately licensed waste facilities.	transport dockets	Kanga Hire takes to - Boorowa Transfer station and gets sorted and some goes to Bald Hills Landfill - copy of both licences on files, Tiger Waste transfort solid waste to licensed to their licensed facility in ACT licence on file. , Poo Carters collect wasterwaster to and EPA liced treatment plant - certificate from Poo Carters says that it is taken to a licenced facility. Zenviron has generated hazardous and special wastes (oils etc) and taken by JR Richards. First load only just taken so no evidence can be provided yet.	Compliant
3.37 REHABILITATION & DECOMMISSIONING Rehabilitation Objectives - Decommissioning	Within 18 months of the cessation of operations, unless the Planning Secretary agrees otherwise, the Applicant must rehabilitate the site to the satisfaction of the Planning Secretary. This rehabilitation must comply with the objectives in Table 7.	not yet operational		Not Triggered
3.38 REHABILITATION & DECOMMISSIONING Progressive Rehabilitation	The Applicant must: (a) rehabilitate all areas of the site not proposed for future disturbance progressively, that is, as soon as reasonably practicable following construction or decommissioning;	not yet operational		Not Triggered
	(b) minimise the total area exposed at any time; and	not yet operational		Not Triggered
	(c) employ interim rehabilitation strategies to minimise dust generation, soil erosion and weed incursion on parts of the site that cannot yet be permanently rehabilitated.	not yet operational		Not Triggered
3.39 REHABILITATION & DECOMMISSIONING Dismantling of Wind Turbines	Any individual wind turbines which cease operating for more than 12 consecutive months must be dismantled within 18 months after that 12 month period, unless the Planning Secretary agrees otherwise.	not yet operational		Not Triggered

Condition Number	Requirement	Evidence Used	Findings and Recommendations	Compliance Status
4.1 NOTIFICATION OF LANDOWNERS	Prior to the commencement of construction, the Applicant must notify the owners of:  (a) the land listed in Table 1 of the conditions of this consent of their rights under condition 1 of schedule 3; and	previous audit findings	The relevant landowners have been formally notified	Compliant
	(b) any non-associated residence within 4 km of any approved wind turbine of their rights under condition 3 of schedule 3.	previous audit findings	The relevant landowners have been formally notified	Compliant
4.2 LAND ACQUISITION	Within 3 months of receiving a written request from an owner with acquisition rights, the Applicant must make a binding written offer to the owner based on:  (a) the current market value of the owner's interest in the land at the date of this written request, as if the land was unaffected by the development, having regard to the: <ul style="list-style-type: none"> <li>existing and permissible use of the land, in accordance with the applicable environmental planning instruments at the date of the written request; and</li> <li>presence of improvements on the land and/or any approved building or structure which has been physically commenced at the date of the owner's written request, and is due to be completed subsequent to that date, but excluding any improvements or reasonable costs that have resulted from the implementation of the visual impact mitigation measures in condition 2 of schedule 3;</li> </ul>	Tilt letter to landowners dated 2 Sept 21 and 3 Nov 21 email request of 6/9/22 re Mr Washbrooke's Property. Letter of offer 6/12/22	This relates to Lot 49 and 104 in Deposited Plan 754136. The offer meets the requirements of the condition but the owner had not accepted the offer at the time of the audit.	Compliant
	(b) the reasonable costs associated with: <ul style="list-style-type: none"> <li>relocating within the Hilltops, Upper Lachlan or Yass Valley local government areas, or to any other local government area determined by the Planning Secretary; and</li> <li>obtaining legal advice and expert advice for determining the acquisition price of the land, and the terms upon which it is to be acquired;</li> </ul>	Tilt letter to landowners dated 2 Sept 21 and 3 Nov 21 email request of 6/9/22 re Mr Washbrooke's Property. Letter of offer 6/12/23	This relates to Lot 49 and 104 in Deposited Plan 754136. The offer meets the requirements of the condition but the owner had not accepted the offer at the time of the audit.	Compliant
	(c) reasonable compensation for any disturbance caused by the land acquisition process.	Tilt letter to landowners dated 2 Sept 21 and 3 Nov 21 email request of 6/9/22 re Mr Washbrooke's Property. Letter of offer 6/12/24	This relates to Lot 49 and 104 in Deposited Plan 754136. The offer meets the requirements of the condition but the owner had not accepted the offer at the time of the audit.	Compliant
4.3 LAND ACQUISITION	The Applicant must pay all reasonable costs associated with the land acquisition process described in condition 2 above, including the costs associated with obtaining Council approval for any plan of subdivision (where permissible), and registration of this plan at the Office of the Registrar-General.	evidence of payment	acquisition has not yet proceeded	Not Triggered

Condition Number	Requirement	Evidence Used	Findings and Recommendations	Compliance Status
5.1 ENVIRONMENTAL MANAGEMENT Environmental Management Strategy	Prior to the commencement of construction, the Applicant must prepare an Environmental Management Strategy for the development to the satisfaction of the Planning Secretary. This strategy must:  (a) provide the strategic framework for environmental management of the development;	previous audit Environmental Management Strategy Rye Park Wind Farm Rev E Sep 22 DPE Letter 31/10/22		Compliant
	(b) identify the statutory approvals that apply to the development;	previous audit Environmental Management Strategy Rye Park Wind Farm Rev E Sep 22 DPE Letter 31/10/22		Compliant
	(c) describe the role, responsibility, authority and accountability of all key personnel involved in the environmental management of the development;	previous audit Environmental Management Strategy Rye Park Wind Farm Rev E Sep 22 DPE Letter 31/10/22		Compliant
	(d) describe the procedures that would be implemented to: • keep the local community and relevant agencies informed about the operation and environmental performance of the development; • receive, handle, respond to, and record complaints; • resolve any disputes that may arise; • respond to any non-compliance; • respond to emergencies; and	previous audit Environmental Management Strategy Rye Park Wind Farm Rev E Sep 22 DPE Letter 31/10/22		Compliant
	(e) include: • copies of any strategies, plans and programs approved under the conditions of this consent; and • a clear plan depicting all the monitoring to be carried out in relation to the development, including a table summarising all the monitoring and reporting obligations under the conditions of this consent.	previous audit Environmental Management Strategy Rye Park Wind farm Rev E Sep 22 DPE Letter 31/10/22		Compliant
	Following the Planning Secretary's approval, the Applicant must implement the Environmental Management Strategy.	Environmental Management Strategy Rev E 26/9/22 observations and records	The audit found that generally the project environmental management strategy was being adhered to. However, Table 3.1 of the strategy states that all employees and subcontractors: - complete a site induction prior to commencing works - compliance with site induction requirements for all aspects of environmental management Induction records indicated that employees and site contractors are undertaking site inductions and that the Tilt and Zenviron inductions cover all aspects of environmental management. <b>However, it was found that the Vestas induction material did not cover environmental aspects relevant to its employees and subcontractors.</b>	Compliant
5.2 ENVIRONMENTAL MANAGEMENT Revision of Strategies, Plans and Programs	Within 3 months of the submission of: (a) an incident report under condition 7 below; (b) an audit report under condition 11 below; or (c) any modification to the conditions of this consent (unless the conditions require otherwise), the Applicant must review and, if necessary, revise the strategies, plans, and programs required under this consent to the satisfaction of the Planning Secretary.	Letter to DPE in response to first audit report Recommendations and actions table Letter to DPE in response RFI following incident report Plans and Strategies on Rye Park Wind Farm Website	Letter to DPE in response to first audit report (RPWF- Audit report was finalised 5/5/22 RPWF_IEA_Recommendations_and_actions on webiste (dated May 220 lists recommendations from audit report and proposed actions Letter to DPE in response RFI following incident report (RPWF-LET-090-DPE Information Request GC Road.pdf) dated 31/8/22 regarding incident on 18/8/22 All plans and strategies on the Rye Park Wind Farm website were updated within 3 months of Mod 2 being approved.	Compliant
	Where this review leads to revisions in any such document, then within 4 weeks of the review the revised document must be submitted to the Planning Secretary for approval.	did this happen?	None of the recommendations from the audit nor the incident report required changes to strategies, plans or programs	Not Triggered
5.3 ENVIRONMENTAL MANAGEMENT Community Consultative Committee	The Applicant must, to the satisfaction of the Planning Secretary and in accordance with the Community Consultative Committee Guidelines for State Significant Project (2019), or its latest version:  (a) establish a Community Consultative Committee for the development prior to the commencement of construction; and	previous audit		Compliant
	(b) operate this Committee following establishment,	CCC minutes of meetings Feb 22-Nov 22	minutes of meetings kept on website. Nov 22 CCC minutes state 7 non-compliances to date – 6 relating to vehicles using non-approved routes, 1 re dam water extraction. ; -only 2 in last 12 months?	Compliant
5.4 NOTIFICATIONS Notification of Department	Prior to commencing the road upgrades, construction, operations, upgrading or decommissioning of the development or the cessation of operations, the Applicant must notify the Department via the Major Projects website portal of the date of commencement, or cessation, of the relevant phase.	Previous audit Notification of Mod 2 commencing		Compliant
	If any of these phases of the development are to be staged, then the Applicant must notify the Department in writing prior to commencing the relevant stage, and clearly identify the development that would be carried out during the relevant stage.	Staging Report June 2022		Compliant

Condition Number	Requirement	Evidence Used	Findings and Recommendations	Compliance Status
5.5 NOTIFICATIONS Final Layout Plans	Prior to commencing construction, the Applicant must submit detailed plans of the final layout of the development to the Department via the Major Projects website, showing comparison to the approved layout and including details on the siting of wind turbines and ancillary infrastructure.	previous audit	DPE email dated 12/11/21	Compliant
5.6 NOTIFICATIONS Work as Executed Plans	Prior to commencing operations or following the upgrades of any wind turbines or ancillary infrastructure, the Applicant must submit work as executed plans of the development and showing comparison to the approved final layout plans to the Department via the Major Projects website.	not yet operational		Not Triggered
5.7 NOTIFICATIONS Incident Notification	The Planning Secretary must be notified in writing via the Major Projects website immediately after the Applicant becomes aware of an incident. The notification must identify the development (including the development application number and the name of the development if it has one) and set out the location and nature of the incident. Subsequent notification requirements must be given, and reports submitted in accordance with the requirements set out in Appendix 8.	CAMS HSE reporting and incident management system.	Only incident (576) was the washing away Grassy Creek Road by flood. It is questionable whether it actually qualified as an incident. Pora\al Log of 5/8/22 shows incident was submitted on the day of the incident.. DPE wanted updated by 31/8/22. Incident update provided 31/8/22.	Compliant
5.8 NOTIFICATIONS Non-Compliance Notification	The Planning Secretary must be notified in writing via the Major Projects website within seven days after the Applicant becomes aware of any non-compliance.	CAMS HSE reporting and incident management system.	CAMS HSE reporting and incident management system has 11 non-conformances logged over life of the project. There were 6 NC in the audit period. On 11/5 Light Vehicle NC and reported to DPE on 18/5. Another on 14/7 reported 21/7. Heavy Vehicle NC occurred of 26/10 and was reported same day.	Compliant
5.9 NOTIFICATIONS Non-Compliance Notification	A non-compliance notification must identify the development and the application number for it, set out the condition of consent that the development is non-compliant with, the way in which it does not comply and the reasons for the non-compliance (if known) and what actions have been, or will be, undertaken to address the non-compliance.	CAMS HSE reporting and incident management system.	There were 6 NC in the audit period. 4 heavy vehicles and 2 light vehicle access issues. Sighted examples of each which includes all of the relevant information.	Compliant
5.10 NOTIFICATIONS Non-Compliance Notification	A non-compliance which has been notified as an incident does not need to also be notified as a non compliance.	CAMS HSE reporting and incident management system.	one incident and not reported as an NCR	Compliant
5.11 INDEPENDENT ENVIRONMENTAL AUDIT	Independent Audits of the development must be conducted and carried out in accordance with the Independent Audit Post Approval Requirements (2020) to the following frequency:	previous audit	construction commenced 1 December 2021 and the audit commenced on 24th February 2022	Compliant
	(a) within 3 months of commencing construction; and  (b) within 3 months of commencement of operations.	not yet operational		Not Triggered
5.12 INDEPENDENT ENVIRONMENTAL AUDIT	Proposed independent auditors must be agreed to in writing by the Planning Secretary prior to the commencement of an Independent Audit.	DPE Letter of 20/01/23	Steven Molino (Lead Auditor) and Roland van Amstel (Assistant to the Lead Auditor) were approved by DPE to conduct this audit and have done so.	Compliant
5.13 INDEPENDENT ENVIRONMENTAL AUDIT	The Planning Secretary may require the initial and subsequent Independent Audits to be undertaken at different times to those specified in condition 11 of Schedule 4 upon giving at least 4 weeks' notice to the Applicant of the date upon which the audit must be commenced.	DPE Letter of 9/01/23	Letter states audit is to cover period 26/2/22 to 28/2/23 which means site audit can be conducted 4 weeks after notification	Compliant
5.14 INDEPENDENT ENVIRONMENTAL AUDIT	In accordance with the specific requirements in the Independent Audit Post Approval Requirements (2020), the Applicant must:	Rye Park Wind Farm Independent Environmental Audit (5 May 2022) – Recommendations and Actions	Three recommendations and corresponding actions were identified which needed to continue throughout construction. These commitments have been checked as part of this audit.	Compliant
	(a) review and respond to each Independent Audit Report prepared under condition 11 of Schedule 4 of this consent, or condition 13 of Schedule 4 where notice is given by the Planning Secretary;			
	(b) submit the response to the Planning Secretary; and  (c) make each Independent Audit Report, and response to it, publicly available within 60 days of submission to the Planning Secretary, unless otherwise agreed by the Planning Secretary.	DPE Portal Submission Receipt	submitted response to Planning Secretary on 14/4	
		Rye Park Wind Farm Independent Environmental Audit (5 May 2022) – Recommendations and Actions		Compliant
			Rye Park Wind Farm Independent Environmental Audit (5 May 2022) – Recommendations and Actions	
5.15 INDEPENDENT ENVIRONMENTAL AUDIT	Independent Audit Reports and the Applicant's response to audit findings must be submitted to the Planning Secretary within 2 months of undertaking the independent audit site inspection as outlined in the Independent Audit Post Approvals Requirements (2020) unless otherwise agreed by the Planning Secretary.	DPE Portal Submission Receipt	site audit undertaken 25th Feb submitted 14/4	Compliant
5.16 INDEPENDENT ENVIRONMENTAL AUDIT	Notwithstanding the requirements of the Independent Audit Post Approvals Requirements (2020), the Planning Secretary may approve a request for ongoing independent operational audits to be ceased, where it has been demonstrated to the Planning Secretary's satisfaction that independent operational audits have demonstrated operational compliance.	not yet operational		Not Triggered

Condition Number	Requirement	Evidence Used	Findings and Recommendations	Compliance Status
5.17 ACCESS TO INFORMATION	<p>The Applicant must:</p> <p>(a) make the following information publicly available on its website as relevant to the stage of the development:</p> <ul style="list-style-type: none"> <li>• the EIS;</li> <li>• the final layout plans for the development;</li> <li>• current statutory approvals for the development;</li> <li>• approved strategies, plans or programs required under the conditions of this consent;</li> <li>• the proposed staging plans for the development if the construction, operation and/or decommissioning of the development is to be staged;</li> <li>• a comprehensive summary of the monitoring results of the development, which have been reported in accordance with the various plans and programs approved under the conditions of this consent.</li> <li>• a complaints register, which is to be updated on a monthly basis;</li> <li>• minutes of CCC meetings;</li> <li>• any independent environmental audit, and the Applicant's response to the recommendations in any audit; and</li> <li>• any other matter required by the Planning Secretary; and</li> </ul>	<p>Project website:</p> <p><a href="https://www.tiltrenewables.com/assets-and-projects/Rye-Park-Wind-Farm/project-approvals-and-applications/">https://www.tiltrenewables.com/assets-and-projects/Rye-Park-Wind-Farm/project-approvals-and-applications/</a></p>	<p>The website provides public access - via download, linked internally or linked externally - to all of the required information specified in this condition.</p>	Compliant
	<p>(b) keep this information up to date.</p>	<p>Project website:</p> <p><a href="https://www.tiltrenewables.com/assets-and-projects/Rye-Park-Wind-Farm/project-approvals-and-applications/">https://www.tiltrenewables.com/assets-and-projects/Rye-Park-Wind-Farm/project-approvals-and-applications/</a></p>	<p>The website clearly sets out available updates to the published information, e.g.:</p> <ul style="list-style-type: none"> <li>- Modifications to Development Consent dd April 2017 and dd September 2022</li> <li>- Variation to EPBC Approval dd June 2021</li> <li>- Statement that: "...the website will continue to be updated to include... plans once prepared or updated..."</li> <li>- Revised IEA Feb 2022</li> <li>- Complaints register as at end January 2023 (checked 24Feb23).</li> </ul>	Compliant

## Appendix D | Site Inspection Photographs



Photo 1: Road drain with rock check dam silted up and ineffective



Photo 2: Road drain with rock check dam partly silted up and breached and ineffective.



Photo 3: Road drain with rock check dam bypassed and ineffective



Photo 4: Embankment requiring stabilization at B15



Photo 5: Erosion caused by spillage from a standpipe at the northern batching plant



Photo 6: erosion caused by spillage from a standpipe at the northern batching plant (2)



Photo 7: Sediment fence repair is required south of B11 where the cable run is eroding



Photo 8: Depleted spill kit



Photo 9: Full oil drums not banded



Photo 10: Full oil drums not banded



Photo 11: Hazardous materials storage and banded pallet



Photo 12: Vehicle tracking number and inspection stickers



Photo 13: Fenced off Aboriginal heritage site



Photo 14: Environmental protection measures at Grassy Creek Road culvert relining



Photo 15: Heavy vehicles advice signage



Photo 16: Heavy vehicles advice signage



Photo 17: Turbine delivery and erection



Photo 18: approved creek crossing



Photo 19: Access road construction



Photo 20: Cable laying



Photo 21: Footing concreting



Photo 22: Cable trench backfilling



Photo 23: Nest box delivery

# Appendix E | Declaration of Independence Form

# Declaration of Independence Form - Auditor

<b>Project Name</b>	Rye Park Wind Farm Independent Environmental Audit
<b>Consent number</b>	SSD 6693
<b>Description of Project</b>	Undertake an independent environmental audit to assess compliance with SSD 6693 and associated documents.
<b>Project Address</b>	Rye Park Wind Farm Dalton Rd, Rye Park NSW
<b>Proponent</b>	Rye Park Renewable Energy Pty Ltd
<b>Date</b>	01 February 2023

I declare that:

- i. I am not related to any proponent, owner, operator or other entity involved in the delivery of the project. Such a relationship includes that of employer/employee, a business partnership, sharing a common employer, a contractual arrangement outside an Independent Audit, or that of a spouse, partner, sibling, parent, or child;
- ii. I do not have any pecuniary interest in the project, proponent or related entities. Such an interest includes where there is a reasonable likelihood or expectation of financial gain (other than being reimbursed for performing the audit) or loss to the auditor, or their spouse, partner, sibling, parent, or child;
- iii. I have not provided services (not including independent reviews or auditing) to the project with the result that the audit work performed by themselves or their company, except as otherwise declared to the Department prior to the audit;
- iv. I am not an Environmental Representative for the project; and
- v. I will not accept any inducement, commission, gift or any other benefit from auditee organisations, their employees or any interested party, or knowingly allow colleagues to do so.

Notes:

- a) *Under section 10.6 of the Environmental Planning and Assessment Act 1979 a person must not include false or misleading information (or provide information for inclusion in) in a report of monitoring data or an audit report produced to the Minister in connection with an audit if the person knows that the information is false or misleading in a material respect. The proponent of an approved project must not fail to include information in (or provide information for inclusion in) a report of monitoring data or an audit report produced to the Minister in connection with an audit if the person knows that the information is materially relevant to the monitoring or audit. The maximum penalty is, in the case of a corporation, \$1 million and for an individual, \$250,000; and*
- b) *The Crimes Act 1900 contains other offences relating to false and misleading information: section 307B (giving false or misleading information – maximum penalty 2 years imprisonment or 200 penalty units, or both)*

<b>Name of Proposed Auditor</b>	Steven Molino
<b>Signature</b>	
<b>Qualification</b>	B. Sci. (Physical Geography & Environmental Chemistry); Bachelor of Engineering (Civil) (Hons), Exemplar Global Lead Environmental Auditor trained.
<b>Company</b>	Water Technology Pty Ltd trading as Molino Stewart

# Declaration of Independence Form - Auditor

<b>Project Name</b>	Rye Park Wind Farm Independent Environmental Audit
<b>Consent number</b>	SSD 6693
<b>Description of Project</b>	Undertake an independent environmental audit to assess compliance with SSD 6693 and associated documents.
<b>Project Address</b>	Rye Park Wind Farm Dalton Rd, Rye Park NSW
<b>Proponent</b>	Rye Park Renewable Energy Pty Ltd
<b>Date</b>	01 February 2023

I declare that:

- i. I am not related to any proponent, owner, operator or other entity involved in the delivery of the project. Such a relationship includes that of employer/employee, a business partnership, sharing a common employer, a contractual arrangement outside an Independent Audit, or that of a spouse, partner, sibling, parent, or child;
- ii. I do not have any pecuniary interest in the project, proponent or related entities. Such an interest includes where there is a reasonable likelihood or expectation of financial gain (other than being reimbursed for performing the audit) or loss to the auditor, or their spouse, partner, sibling, parent, or child;
- iii. I have not provided services (not including independent reviews or auditing) to the project with the result that the audit work performed by themselves or their company, except as otherwise declared to the Department prior to the audit;
- iv. I am not an Environmental Representative for the project; and
- v. I will not accept any inducement, commission, gift or any other benefit from auditee organisations, their employees or any interested party, or knowingly allow colleagues to do so.

Notes:

- a) *Under section 10.6 of the Environmental Planning and Assessment Act 1979 a person must not include false or misleading information (or provide information for inclusion in) in a report of monitoring data or an audit report produced to the Minister in connection with an audit if the person knows that the information is false or misleading in a material respect. The proponent of an approved project must not fail to include information in (or provide information for inclusion in) a report of monitoring data or an audit report produced to the Minister in connection with an audit if the person knows that the information is materially relevant to the monitoring or audit. The maximum penalty is, in the case of a corporation, \$1 million and for an individual, \$250,000; and*
- b) *The Crimes Act 1900 contains other offences relating to false and misleading information: section 307B (giving false or misleading information – maximum penalty 2 years imprisonment or 200 penalty units, or both)*

<b>Name of Proposed Auditor</b>	Roland van Amstel
<b>Signature</b>	
<b>Qualification</b>	Master of Planning & Management of Natural Hazards) Master of Business Administration (MBA) Master of Science, Aerospace Engineering Lead Auditor Environmental Management Systems trained
<b>Company</b>	Water Technology Pty Ltd trading as Molino Stewart



## **Attachment 3: Notification of the Commencement of Commissioning**



23 July 2023

Ms Rachel Short  
Branch Head  
Environmental Assessments (Vic, Tas) and Post Approval Branch  
Department of Climate Change, Energy, the Environment and Water  
GPO Box 3090  
Canberra ACT 2601

Via email: [postapproval@dcceew.gov.au](mailto:postapproval@dcceew.gov.au)

Dear Rachel,

**RE: Rye Park Wind Farm – EPBC 2020/8837: Notification of the Commencement of Commissioning under Condition 23(b)**

Approval 2020/8837 (**EPBC Approval**) was granted on 1 June 2021 under the *Environment Protection and Biodiversity Act 1999* (Cth) (**EPBC Act**) to Rye Park Renewable Energy Pty Ltd (ACN 601 541 931) (**RPRE**) authorising RPRE “to construct and operate a wind farm with up to 77 wind turbines, and associated infrastructure at Rye Park, New South Wales”, subject to conditions (the **Project**).

RPRE previously advised that the action commenced on the Project, approved pursuant to the EPBC Approval on 16 November 2021. Further to this previous correspondence, RPRE now wishes to advise the Department the commissioning of the Project commenced on 20 July 2023 in accordance with Condition 23(b) of the EPBC Approval.

We further note the requirement to notify the Department of the date operation of the Project commences in accordance with Condition 23(c) of the EPBC Approval and will provide this correspondence in due course. For the Department’s reference project planning indicates that the operation of the Project is likely to commence in Q2 2024.

If you have any questions or would like to arrange a time to discuss further, please do not hesitate to contact me on my details below.

Kind regards,

A handwritten signature in blue ink that reads "Beckett".

James Beckett  
**Manager, Planning and Environment & authorised  
representative of Rye Park Renewable Energy Pty  
Ltd**

M: 0419 631 905  
E: [james.beckett@tiltrenewables.com](mailto:james.beckett@tiltrenewables.com)

Rye Park Renewable Energy Pty Ltd  
ACN 601 541 931

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[tiltrenewables.com](http://tiltrenewables.com)



## Attachment 4: BBAMP – Summary of Work Completed



Inspired People.  
Dedicated Team.  
Quality Outcomes.

## Briefing Note

**To: James Beckett**

**E | [james.beckett@tiltrenewables.com](mailto:james.beckett@tiltrenewables.com)**

**From: Rebecca Vere**

**Date: 12 December 2023**

**Subject: Rye Park Wind Farm: Bird and Bat Adaptive Management  
Plan Summary of Work Completed**

### Purpose

This briefing note provides Rye Park Renewable Energy Pty Ltd (RPRE) a summary of the implementation works completed to date by Umwelt (Australia) Pty Ltd (Umwelt) of the approved Bird and Bat Adaptive Management Plan (BBAMP; Rev 9) for the Rye Park Wind Farm Project (the Project). Umwelt have been engaged by RPRE to implement the measures outlined in the BBAMP, with King & Co Detection undertaking the relevant wind turbine carcass searches.

As per the requirements of the BBAMP for the Project, interim Bird and Bat Utilisation Surveys (BBUS), targeted superb parrot (*Polytelis swainsonii*) surveys and carcass searches were required to be completed during the commissioning phase of the Project, which commenced on 26 July 2023. These interim components of the BBAMP are required at turbine clusters that include specific wind turbines that are part of the full BBAMP components. The interim program will increase incrementally as more turbine clusters are constructed and are only able to commence following completion of construction of the particular cluster, once all construction activities and associated exclusion areas have been removed and commissioning of the turbine cluster is commenced.

This document is intended to facilitate consultation with the Biodiversity, Conservation and Science Directorate (BCS) – South East office regarding the work completed and associated results of the interim implementation of the BBAMP.

A package of GIS spatial data of the relevant surveys and key results of the BBAMP implementation to date has been supplied with this briefing note.

**Umwelt (Australia)  
Pty Limited**

ABN 18 059 519 041

T| 1300 793 267  
E| [info@umwelt.com.au](mailto:info@umwelt.com.au)

[www.umwelt.com.au](http://www.umwelt.com.au)

## 1.0 Interim Implementation of the BBAMP – Work Completed

### 1.1 Bird Utilisation

Umwelt has completed interim bird utilisation surveys in accordance with Section 5.2 of the BBAMP at the locations and in the month presented below in **Table 1**.

**Table 1 Rye Park Wind Farm BBAMP Interim Bird Utilisation Survey Summary**

Survey Site	Date	Time	Duration (mins)
VPC04	14/11/2023	Morning	60
	15/11/2023	Afternoon	60
VPC03	14/11/2023	Afternoon	60
	15/11/2023	Morning	60
VPI03	14/11/2023	Afternoon	60
	15/11/2023	Morning	60

As part of the above-mentioned surveys, Umwelt has completed a total of six hours of bird utilisation surveys for the interim survey program.

Due to the commissioning of the wind farm occurring from July 2023, Umwelt has only completed the November bird surveys, with the other relevant Year 1 surveys (in February, April and July) to be completed across 2024. These surveys are then required to be replicated in the third and fifth year following the commencement of commissioning of the Project.

### 1.2 Superb Parrot Targeted Transects

Umwelt has completed interim superb parrot targeted transect surveys in accordance with Section 5.2.3 of the BBAMP at the locations and in the month presented below in **Table 2**.

**Table 2 Rye Park Wind Farm BBAMP Interim Superb Parrot Targeted Transect Survey Summary**

Transect	Date of survey						Duration (mins)
	7/11/23	8/11/23	9/11/23	21/11/23	22/11/23	23/11/23	
TS_C01	-	PM	AM	-	PM	AM	80 (20*4)
TS_C02	-	PM	AM	-	PM	AM	80 (20*4)
TS_C03	-	AM/PM	-	PM	AM	-	80 (20*4)
TS_C04	PM	AM	-	PM	AM	-	80 (20*4)
TS_C09	-	PM	AM	-	PM	AM	80 (20*4)
TS_C10	-	PM	AM	-	PM	AM	80 (20*4)
TS_C11	PM	AM	-	PM	AM	-	80 (20*4)
TS_C12	PM	AM	-	PM	AM	-	80 (20*4)
TS_I03	PM	AM	-	PM	AM	-	80 (20*3)

As part of the above-mentioned surveys, Umwelt has completed a total of 12 hours of superb parrot targeted transect surveys for the interim survey program.

### 1.3 Bat Utilisation

Umwelt has completed interim bat utilisation surveys in accordance with Section 5.3 of the BBAMP at the locations and in the month presented below in **Table 3**.

**Table 3 Rye Park Wind Farm BBAMP Interim Bat Utilisation Survey Summary**

Tower	Chorus Unit	Date deployed	Height	No. of Nights
A04	RyePark1	7/11/2023	2 m	15
	RyePark2	8/11/2023	120 m	14
G03	RyePark3	8/11/2023	2 m	14
	RyePark4	8/11/2023	120 m	14

As part of the above-mentioned surveys, Umwelt has completed a total of 57 nights of bat utilisation surveys for the interim survey program. The call data collected by the deployed Anabat units has not yet been analysed, as identified below in the Limitations sections below.

Due to the commissioning of the wind farm occurring from July 2023, Umwelt has only completed the November bat surveys, with the other relevant Year 1 surveys to be completed across 2024. These surveys are then required to be replicated in the third and fifth year following the commencement of commissioning of the Project.

### 1.4 Carcass Searches

Umwelt commenced the interim carcass search program for the Project, at the locations and in the months presented below in **Table 4**. In accordance with Section 5.4 of the BBAMP, an ecologist was to undertake inspection of wind turbines following the commencement of commissioning for the period until safe and unimpeded access was not available to undertake the interim carcass search program (i.e., access not available to conservation dogs). There were two additional turbines surveyed in the first cluster (A cluster) of commissioned turbines only in July 2023, this will not be permanently monitored and only the turbines as per the BBAMP will be monitored.

**Table 4 Rye Park Wind Farm BBAMP Interim Carcass Search Survey (Human Surveyor) Summary**

Tower	July 2023	August 2023
A02	27/07/23	10/08/23
A04	27/07/23	10/08/23
A06	27/07/23	09/08/23
A10	26/07/23	09/08/23
A12	26/07/23	09/08/23
A05	26/07/23	N/A
A07	26/07/23	N/A

King & Co Detection have since completed the interim carcass search program in accordance with the requirements of Section 5.4 of the BBAMP with the use of conservation detection dogs at the locations and in the month presented below in **Table 5**.

**Table 5 Rye Park Wind Farm BBAMP Interim Carcass Search Survey (Conservation Dog) Summary**

Tower	September	October	November 1	November 2 (superb parrot season)	December
A02	22/09/23	17/10/23	20/11/23	-	Planned for WC 11/12/23
A04	22/09/23	20/10/23	15/11/23	-	
A06	22/09/23	16/10/23	17/11/23	-	
A10	21/09/23	18/10/23	17/11/23	-	
A12	21/09/23	16/10/23	17/11/23	-	
B01	22/09/23	18/10/23	15/11/23	-	
B07	21/09/23	20/10/23	20/11/23	-	
B08	21/09/23	18/10/23	20/11/23	-	
B09	21/09/23	17/10/23	19/11/23	-	
B13	22/09/23	17/10/23	15/11/23	-	
B15	20/09/23	20/10/23	19/11/23	-	
G01	-	-	16/11/23	30/11/23	
G02	-	-	16/11/23	30/11/23	
G03	-	-	16/11/23	01/12/23	
G04	-	-	21/11/23	01/12/23	
G05	-	-	21/11/23	-	

- Turbines scheduled to be surveyed starting 11<sup>th</sup> December 2023.

A total of 45 hours of carcass searches have been completed for the Project across 18 turbines (two additional in A cluster in July 2023), of which 8.5 hours was undertaken by human searches and the remaining 36.5 hours was undertaken by conservation dogs.

## 2.0 Interim Implementation of the BBAMP – Results

### 2.1 Bird Utilisation

The interim bird utilisation surveys have identified one key bird species, the wedge-tailed eagle, at three BBUS locations. These are presented below in **Table 6**.

**Table 6 Rye Park Wind Farm BBAMP Interim Bird Utilisation – Key Species**

Species	November 2023		
	VPC03	VPC04	VPI04
Wedge-tailed eagle ( <i>Aquila audax</i> )	X	X	X

### 2.2 Superb Parrot Targeted Transects

The interim superb parrot targeted transect surveys recorded a total of four superb parrot individuals, across two transects. These are summarised below in **Table 7**.

**Table 7 Rye Park Wind Farm BBAMP Interim Superb Parrot Targeted Transects Results**

Transect	Date	No. of Individuals
TS_C01	09/11/2023	2
TS_C09	22/11/2023	2

### 2.3 Carcass Searches

There have been no threatened species found dead or injured across the interim carcass search program. King & Co Detection have found six carcasses during the November 2023 surveys, and these are presented below in **Table 8**. Two incidental finds have been reported by the Site Manager for the Project, one of a magpie and one wedge-tailed eagle. The wedge-tailed eagle record was an incidental find and was reported to the BCS on the day it was identified as required by the non-threatened species response and reporting requirements of the BBAMP.

**Table 8 Total Carcass Finds across Rye Park Wind Farm**

TURBINE	FIND DATE	FIND TIME	SPECIES	Surveyor
A04	15/11/2023	9:26	Large Forest Bat	November Dog searches
B15	19/11/2023	8:35	Little Forest Bat	November Dog searches
B08	20/11/2023	6:34	Southern Freetail Bat	November Dog searches
B07	20/11/2023	7:14	Little Forest Bat	November Dog searches
A02	20/11/2023	7:50	Nankeen Kestrel	November Dog searches
A02	20/11/2023	8:17	White Striped Freetail Bat	November Dog searches
C03	21/11/2023	Not recorded	Magpie	Incidental find
A05	11/12/2023	10:45	Wedge-tailed Eagle	Incidental find

### **3.0 Limitations**

In November 2023, Anabat devices were installed at the following wind turbines as per the BBAMP (being at the back of the wind turbine hub, approximately 120 metres above ground):

- A04
- G03.

The Anabat devices were installed for a total of 57 nights. The collected call data that was captured by the Anabat devices has subsequently been provided to a bat call expert for analysis, however due to the high demand on this type of work across NSW, the results are not expected to be received until early 2024. The results of this call analysis will be captured as part of the formal BBAMP review scheduled for April 2024.

### **4.0 Conclusion**

The Project has commenced the interim components of the BBAMP at turbine clusters that include specific wind turbines that are part of the full BBAMP components. The interim program has increased incrementally as more turbine clusters are constructed and once all construction activities and associated exclusion areas have been removed across that cluster of wind turbines and commissioning of the wind turbine cluster had commenced.

No threatened species of bird or bat have been found dead or injured by the Project. One dead wedge-tailed eagle was recorded via an incidental find on 11/12/2023. This record does not meet the impact trigger threshold as per the BBAMP (being detection of two or more carcasses, injured individuals or featherspots under or near the same or adjacent turbines during carcass searches in any two consecutive months).

Umwelt considers that the current level of data obtained through the commissioning surveys does not allow for a systematic or logical review of the BBAMP at this time, primarily due to the staging of the commissioning of the Project. Carcass searches of commissioned wind turbines have been limited to three months of up to 16 turbines of the 33 turbines proposed to form part of the search program. It is recommended that the refinement of the impact triggers and response procedures is informed by further survey effort and review of the BBAMP aligning to the review milestones outlined in Section 8.2 of the BBAMP (refer to Section 5.0).

The interim BBAMP surveys will continue through commissioning phases of the Project, with the full BBAMP being implemented upon operation, which is currently anticipated to be the end of April 2024.

### **5.0 Further review**

On commencement of the operation of the Project, the BBAMP will be subject to a full review (including consideration of results) with involvement from BCS and DCCEEW in accordance with Section 8.2 of the BBAMP.

In addition to the review requirements, RPRE will seek as part of this review amendments to the BBAMP to ensure a single version of the BBAMP is approved by both BCD and DCCEEW as well as a review of other implementation challenges to allow for the efficient implementation of the BBAMP.



## Attachment 5: Detailed Plans of the Final Layout



RPRE-LET-212

27 October 2023

Minister for the Environment and Water  
Department of Climate Change, Energy, the Environment and Water  
GPO Box 3090  
Canberra ACT 2601

Via: email to [postapproval@dcceew.gov.au](mailto:postapproval@dcceew.gov.au)

Dear Post Approvals Team,

**RE: RYE PARK WIND FARM PROJECT (EPBC 2020/8837): SUBMISSION OF COMPLETED LAYOUT**

Rye Park Renewable Energy Pty Ltd (**RPRE**), a subsidiary of the portfolio of companies trading as Tilt Renewables, is the proponent of the Rye Park Wind Farm Project (the **Project**) which is currently under construction. The Project was granted approval under the *Environment Protection and Biodiversity Conservation Act 1999* (**EPBC Act**) (EPBC 2020/8837; the **EPBC Approval**) on 1 June 2021, with a variation to EPBC 2020/8837 being approved on 30 June 2022.

This correspondence is being provided to the Minister to submit relevant detailed plans of the completed layout of the Project in accordance with Condition 15 of the EPBC Approval, following the finalisation of the civil disturbance of the wind farm development. All civil disturbance activities associated with the Project are now complete, with RPRE undertaking ongoing wind turbine erections and progressive commissioning of the Project, with operations of the Project likely to commence in April 2024.

**Completed Layout**

RPRE has attached plans to this correspondence reflecting the completed layout of the wind farm, in a format that is consistent with the detailed plans of the final layout provided to the Minister prior to the commencement of the Project (refer to Condition 12). In finalising the layout of the Project, RPRE has undertaken relevant surveys of the areas of disturbance in accordance with Section 5.4 the Project's Biodiversity Management Plan (RPWF-PLN-0003) and calculated the final biodiversity credit liability for the Project in accordance with the approved Rye Park Wind Farm Offset Strategy. The final biodiversity credit liability for the Project is presented in the attached *Rye Park Wind Farm – Final Layout Confirmation of Credit Liabilities Report* (Umwelt, October 2023), with a summary of the areas of disturbance to relevant ecological values under the EPBC Approval presented in Attachment 1.

As identified by the final areas of disturbance and the Rye Park Wind Farm – Final Layout Confirmation of Credit Liabilities Report, RPRE confirms that the completed layout has not increased impacts relevant to the final layout proposed prior to the commencement of the action. As identified in Attachment 1, the final impact of the Project has been significantly reduced compared to the initial estimated impacts to the relevant Matters of National Environmental Significance and relevant clearing limits in Condition 3 of the EPBC Approval.

In finalising the disturbance surveys of the Project, RPRE notes a number of minor departures from the Project Area, which have been recently notified to the Department's Compliance Team on 13 October 2023. RPRE awaits the Department's further investigation of any non-compliance but notes that the disturbance areas and final biodiversity credit requirements consider the total disturbance of the Project, including these areas of disturbance outside the Project Area.

**Biodiversity Credit Retirement Requirements**

RPRE notes that in accordance with Condition 16 of the EPBC Approval, relevant like-for-like biodiversity credits must be retired within two years of the commencement of the action and prior to the operation of the Project. In accordance with the notification provided to the Minister in accordance with Condition 23(a) of the EPBC Approval, RPRE commenced construction of the Project on 16 November 2021, which would necessitate retirement of the relevant credits by 16 November 2023.

RPRE notes that the survey activities of the civil disturbance of the Project have only recently been completed on 10 October 2023. The survey of the disturbance areas was dependent on the completion of disturbance associated with the Project, which was only completed in August 2023, noting the challenging weather conditions experienced across southern New South Wales in 2022 which resulted in civil activities for the Project finishing later than planned. In addition, the limitations on the Project imposed by the Project’s Staging Report (relevant to NSW Development Consent) also delayed civil activities from the initially proposed construction program, owing to the requirement for public road upgrades required by the Project to be completed prior to full construction activities on site.

In accordance with the approved Offset Strategy, RPRE has sought to undertake several steps to satisfy the credit requirements for the Project in line with the Offset Strategy. This includes:

1. Payments into the Biodiversity Conservation Fund (BCF); and
2. Establishment of Biodiversity Stewardship Agreements (BSAs).

The following sections of this correspondence seek to provide an update to the Department on the status of the implementation of the approved Offset Strategy and status of the overall credit liability for the Project.

**Payments in the BCF**

RPRE has made two (2) payments into the BCF, partly satisfying some of the offset credit liability for the Project. An overview of the credit liabilities satisfied through these payments is presented in Table 1. Statements confirming these two (2) payment transactions into the BCF are provided in Attachment 2 for reference.

**Table 1: Payments made to the BCF**

PCT / Species Credit Species	Final Biodiversity Credit Requirement	BCF Payments		Remaining Credit Liability following payment	Percentage of total credit requirement satisfied to date (%)
		BCF427	BCF460		
289	16	-	19	0	100
335	99	11	101	0	100
350	882	8	-	874	1
351	3,447	-	-	3,447	0
Golden sun moth ( <i>Synemon plana</i> )	470	-	-	470	0
Striped legless lizard ( <i>Delma impar</i> )	270	-	227	43	84
Superb parrot (breeding habitat) ( <i>Polytelis swainsonii</i> )	502	9	434	59	88
Squirrel glider ( <i>Petaurus norfolcensis</i> )	2,473	134	-	2,339	5

In accordance with the Offset Strategy, it is the intention of RPRE to make further payments into the BCF to satisfy any remaining offset credit obligation that is not satisfied as part of the establishment of any new biodiversity stewardship sites or through the acquisition of credits through market mechanisms.

### **Establishment of BSAs**

To satisfy the required biodiversity offset credit liability, the preferred approach of RPRE has been to establish new BSAs over both land that has been acquired by RPRE or where an agreement has been entered into with a landowner to establish a BSA on their property and to transfer the required credits to RPRE for retirement against the Project’s credit liability.

RPRE has made BSA applications over four (4) properties owned by RPRE and a further two (2) BSA applications have been made by other parties for which RPRE has an agreement in place to acquire the credits once the BSA is established. An overview and status of each BSA application is provided in Table 2. A detailed overview of the anticipated credit generation from each of the relevant BSA’s is contained in Attachment 3.

**Table 2: BSA applications – overview and status**

<b>Proposed BSA</b>	<b>Landowner</b>	<b>Address</b>	<b>Approx. area of BSA (ha)</b>	<b>Status / Stage of Assessment</b>	<b>Likely timing for finalisation of BSA (credit generation)<sup>1</sup></b>
<b>Middle Arm</b>	RPRE	Back Arm Road, Middle Arm NSW 2580	278	Application successful and Agreement finalised by Department (currently with RPRE to execute).	November 2023
<b>Jerrong</b>	RPRE	470 The Glen Road, Jerrong NSW 2580	206	Application successful and Agreement finalised by Department (currently with RPRE to execute).	November 2023
<b>Totnes South</b>	RPRE	1228 Neurea Road, Mumbil NSW 2820	525	Application passed spatial and eligibility review and currently being assessed by the Departments Credit Supply Taskforce (CST).	January 2024
<b>Coolong</b>	Private third-party	388 Felled Timber Road, Blakney Creek NSW 2581	134	Application passed spatial and eligibility review and currently undertaking detailed assessment by CST (site visit complete).	January 2024
<b>Willow Vale</b>	Private third-party	410 Maryvale Road, Rye Park NSW 2586	231	Feedback received from initial spatial and eligibility review, which is being responded to by RPRE prior to detailed assessment.	February 2024
<b>Echo</b>	RPRE	Days Road, Bango NSW 2528	497	Feedback received from initial spatial and eligibility review, which is being responded to by RPRE prior to detailed assessment.	March 2024

<sup>1</sup> Timing for credit availability based on general assessment timeframes established by DPE (Biodiversity Credit Supply Taskforce), which is generally identified to be 5 business days for Agreement drafting and review; 11 business days for the Landholder Signing Package and 21 business days for the Agreement execution, registration, credit issue and handover.

Following the establishment of a BSA, RPRE will need to prepare and submit an application to the CST to formally retire the associated credits. The timeframe required for the CST to process these applications is typically three to four weeks. Based on the likely timing for the generation of credits from the established BSAs, RPRE will be able to have all credits available and formally retired the relevant credits from all sites by April 2024.

Despite RPRE acquiring the properties of which four (4) of the proposed BSA's were acquired between November 2021 and March 2022, the length of time taken to complete the required ecological assessments, prepare the BSA applications and have them assessed by the CST has been considerable resulting in delays to the establishment of the BSAs beyond the expectations of RPRE.

**Remaining Credit Liability**

Taking into account the biodiversity offset credits that have already been paid into the BCF and those that are being generated by RPRE for retirement against the disturbance associated with the Project, the proposed actions to satisfy the Project's balance of credit liability obligations are outlined in Table 3.

**Table 3: Remaining credit liability after BCF payment and generation**

PCT / Species Credit Species	Remaining credit liability	Proposed action to satisfy obligation	Remaining obligations to be satisfied within current regulatory timeframe? <sup>2</sup>
289	0	<ul style="list-style-type: none"> <li>No remaining liability after previous payments into BCF</li> </ul>	Yes
335	0	<ul style="list-style-type: none"> <li>No remaining liability after previous payments into BCF</li> </ul>	Yes
350	0	<ul style="list-style-type: none"> <li>No remaining liability after consideration of generation through currently assessed BSAs</li> </ul>	No
351	0	<ul style="list-style-type: none"> <li>No remaining liability after consideration of generation through currently assessed BSAs</li> </ul>	No
Golden sun moth ( <i>Synemon plana</i> )	470	<ul style="list-style-type: none"> <li>Payment into the BCF now that final credit liability is known</li> </ul>	Unlikely based on credit retirement timeframes with CST
Striped legless lizard ( <i>Delma impar</i> )	43	<ul style="list-style-type: none"> <li>Payment into the BCF now that final credit liability is known</li> </ul>	Unlikely based on credit retirement timeframes with CST
Superb parrot (breeding habitat) ( <i>Polytelis swainsonii</i> )	53	<ul style="list-style-type: none"> <li>Payment into the BCF now that final credit liability is known, however waiting until credit generation through BSAs is confirmed through further assessment by CST</li> </ul>	No
Squirrel glider ( <i>Petaurus norfolcensis</i> )	1,967	<ul style="list-style-type: none"> <li>Payment into the BCF now that final credit liability is known, however waiting until credit generation through BSAs is confirmed through further assessment by CST</li> </ul>	No

As outlined in Table 3, RPRE has a remaining offset liability solely in relation to species credit species. Further payment into the BCF is proposed for those species that are not generating credits from a BSA being established by RPRE, which given the timeframes for the retirement in line with Condition 16 of the EPBC Approval, this is unlikely to be achieved following the recent confirmation of the final biodiversity credit liability.

<sup>2</sup> It is noted that this assessment is in relation to the expected remaining credit liability and the other precedent obligations that inform this remaining credit liability may not be satisfied within the current regulatory timeframes required by the EPBC Approval (being 16 November 2023). For instance, should the remaining obligation be calculated by RPRE establishing credits within a BSA, the BSA may not be finalised within the required regulatory timeframe but RPRE is proposing to make payment into the BCF for the likely remaining obligation based on the assumed generation of credits from the BSA.



### **Request for extension to credit retirement period**

RPRE respectfully requests the Minister agree to an extension of the period for the retirement of the required biodiversity credits to what is required under the EPBC Approval. Specifically, RPRE has made efforts to obtain the relevant biodiversity offset credits, however has encountered difficulties in both the finalisation of the final credit liability with the civil construction of the Project not having concluded until recently in October 2023 and delays in the establishment of BSAs.

RPRE commits to fulfilling the obligations under the conditions of the EPBC Approval as soon as practicable, however would appreciate the opportunity to realise the potential of the substantial commitments made by RPRE in establishing BSAs to satisfy the credit obligation. With consideration of the six (6) applications made to establish BSAs that are currently being assessed by the CST, credits generated by these sites should be formally retired against the Project in April 2024, approximately five (5) months following the current timeframe requirements under the EPBC Approval.

RPRE is seeking a 6-month extension, until 16 May 2024, to retire all related biodiversity offset credits associated with the impact of the Project in accordance with the conditions of the EPBC Approval. This is considered sufficient time to allow for:

1. Further payments into the BCF where species credit species are not being generated through the establishment of BSAs; and
2. A conservative timeframe for the establishment of the already progressed BSA applications and retirement of associated credits.

We very much appreciate your consideration of this request and acknowledge that the timeframe for the required biodiversity credit timeframe is approaching, however, RPRE has been unable to determine the actual credit retirement requirements until the recent finalisation of the surveyed areas of disturbance and subsequent calculation of the offset liability in accordance with the Biodiversity Assessment Method under the NSW Biodiversity Offset Scheme.

We would appreciate the opportunity to meet the Department to discuss the matter further and should the Department require any further information in the meantime, please contact me on the below details.

Yours sincerely,

A handwritten signature in blue ink that reads "Beckett".

James Beckett  
**Manager, Planning and Environment**

P: 0419 631 905

E: [james.beckett@tiltrenewables.com](mailto:james.beckett@tiltrenewables.com)



**ATTACHMENT 1: DISTURBANCE ANALYSIS OF COMPLETED LAYOUT**

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# Rye Park Wind Farm

Final Disturbance analysis in accordance with Section 5.4 of the *Rye Park Wind Farm Biodiversity Management Plan (RPWF-PLN-0003)*

Date Traking Sheet Updated:	26/10/2023
Surveyed Disturbance Capture to:	10/10/2023

Regulatory Approval Requirements (State Significant Development Consent & EPBC Approval)				Completed Post-clearance Disturbance Inspection (as-built) (ha)	Indicative Pre-Construction Layout (MOD2) - Disturbance Total (ha)	Completed Post-construction Layout Analysis		
Requirement / Constraint	Relevant Approval	Approval Reference	Clearing Limit / Indicative Clearance (ha)			Predicted impacts still to occur (ha)	Difference to Indicative Pre-Construction Layout (MOD2) (ha)	Difference to Clearing Limit / Indicative Clearance (ha)
<b>Constraints (Defined Clearing Limits)</b>								
Box Gum Woodland CEEC (LA103) Including Box Gum Woodland Derived Grassland	SSD-6693	"ensure that no more than 37.34 hectares of the Box Gum Woodland EEC, including Box Gum Woodland derived grassland, is cleared for the development" (Schedule 3 Condition 19 of the Development Consent)*	37.34	27.82	32.90	0.00	-5.08	-9.52
Golden Sun Moth Habitat	SSD-6693 & EPBC2020/8837	"the approval holder must not clear more than 85.28ha Golden Sun Moth habitat" (Condition 3 of EPBC 2020/8837)  **ensure that no more than 85.22 ha of Golden Sun Moth habitat** (Schedule 2 Condition 19 of the Development Consent)*	85.22	65.22	76.32	0.00	-11.10	-20.00
Superb Parrot Habitat	EPBC2020/8837	*the approval holder must not clear more than 20.08ha of habitat for the Superb Parrot* (Condition 3 of EPBC 2020/8837)	20.08	15.88	19.24	0.00	-3.36	-4.20
Box Gum Woodland	EPBC2020/8837	*the approval holder must not clear more than 35.73 ha of Box Gum Woodland** (Condition 3 of EPBC 2020/8837)	35.73	27.08	31.10	0.00	-4.02	-8.65
Striped Legless Lizard Habitat	EPBC2020/8837	*the approval holder must not clear more than 43.29ha of Striped Legless Lizard habitat* (Condition 3 of EPBC 2020/8837)	43.29	37.57	41.01	0.00	-3.44	-5.72
<b>Constraints (Indicative Disturbance / Generally in Accordance with Approval Requirements)</b>								
BDAR - Squirrel Glider Habitat	SSD-6693	"Squirrel Glider (Petaurus norfolkensis) = 103.23ha" (Micrositing in accordance with process set out in Section 5.1.1 of the approved BMP)	103.23	67.67	84.59	0.00	-16.92	-35.56
BDAR - Southern Myotis Habitat	SSD-6693	"Southern Myotis (Myotis macropus) = <0.01ha" (Micrositing in accordance with process set out in Section 5.1.1 of the approved BMP)	<0.01	0.00	0.01	0.00	-0.01	0.01
BDAR - Mugga Ironbark - Inland Scribbly Gum (PCT 289)	SSD-6693	"Mugga Ironbark - Inland Scribbly Gum (PCT 289) = 0.77ha" (Micrositing in accordance with process set out in Section 5.1.1 of the approved BMP)	0.77	0.48	0.73	0.00	-0.25	-0.29
BDAR - Tussock grass - sedgeland fern (PCT 335)	SSD-6693	"Tussock grass - sedgeland fen (PCT 335) = 5.72ha" (Micrositing in accordance with process set out in Section 5.1.1 of the approved BMP)	5.72	3.76	5.75	0.00	-1.99	-1.96
BDAR - Brittle Gum - Broad-leaved Peppermint - Red Stringybark (PCT 351)	EPBC2020/8837	"Brittle Gum - Broad-leaved Peppermint - Red Stringybark (PCT 351) = 347.94ha" (Micrositing in accordance with process set out in Section 5.1.1 of the approved BMP)	347.94	330.60	298.08	0.00	32.53	-17.34
BDAR - Candlebark - Blakely's Red Gum - Long-leaved Box grassy woodland (PCT 350)	SSD-6693 & EPBC2020/8837	"Candlebark - Blakely's Red Gum - Long-leaved Box grassy woodland (PCT 350) (State) = 37.45ha" (Micrositing in accordance with process set out in Section 5.1.1 of the approved BMP)	37.45	27.82	32.99	0.00	-5.17	-9.63

\* Indicative disturbance limits have been based on the indicative disturbance area of SSD-6693-MOD1, with the revised indicative disturbance area for SSD-6693-MO2 being provided to regulatory agencies to demonstrate clearing is generally in accordance with the relevant clearing for SSD-6693-MOD1.



**ATTACHMENT 2: BCF SECTION 6.33 STATEMENTS**

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## Statement confirming payment into the Biodiversity Conservation Fund for an offset obligation

Pursuant to section 6.33 of the *Biodiversity Conservation Act 2016*, the NSW Biodiversity Conservation Trust confirms that the following payments have been made into the Biodiversity Conservation Fund under section 6.30(1) of the Act to satisfy an obligation to retire biodiversity credits.

<b>Payment made by</b>	Rye Park Renewable Energy Pty Ltd ATF The Rye Park Wind Farm Trust				
<b>Date received</b>	16 September 2022				
<b>NSW statutory obligation reference<sup>1</sup></b>	SSD-6693-MOD 1				
<b>Commonwealth EPBC Act controlled action reference (if applicable)<sup>2</sup></b>	2020-8837				
<b>BCT Reference</b>	BCF427				
<b>Biodiversity credit retirement obligations satisfied by payment to the Biodiversity Conservation Fund:</b>					
<b>Biodiversity credit type (Credit ID and name)</b>	<b>Offset trading group</b>	<b>EPBC Act Controlled Action offset obligation (Y / N)</b>	<b>Number of credits</b>	<b>Cost per credit  (Exc. GST)</b>	<b>Total payment per credit type  (Exc. GST)</b>
335 - Tussock grass - sedgeland fen - rushland - reedland wetland in impeded creeks in valleys in the upper slopes sub-region of the NSW South Western Slopes Bioregion	Inland Floodplain Swamps >=70% and <90%	Y	9	\$13,533.90	\$121,805.14
335 - Tussock grass - sedgeland fen - rushland - reedland wetland in impeded creeks in valleys in the upper slopes sub-region of the NSW South Western Slopes Bioregion	Inland Floodplain Swamps >=70% and <90%	Y	2	\$13,533.90	\$27,067.81
350 - Candlebark - Blakely's Red Gum - Long-leaved Box grassy woodland in the Rye Park to Yass region of the NSW South Western Slopes Bioregion and South Eastern Highland Bioregion	White Box - Yellow Box - Blakely's Red Gum Grassy Woodland and Derived Native Grassland in the NSW North Coast, New England Tableland, Nandewar, Brigalow Belt South, Sydney Basin, South Eastern Highland	Y	8	\$8,532.95	\$68,263.63
10645 - <i>Polytelis swainsonii</i> (Superb Parrot)	<i>Polytelis swainsonii</i> (Superb Parrot)	Y	9	\$974.69	\$8,772.18
10604 - <i>Petaurus norfolcensis</i> (Squirrel Glider)	<i>Petaurus norfolcensis</i> (Squirrel Glider)	Y	134	\$677.71	\$90,812.49
<b>Total (Exc. GST)</b>					<b>\$316,721.25</b>
<b>GST</b>					<b>\$31,672.13</b>
<b>Total (Inc. GST)</b>					<b>\$348,393.38</b>

20/09/2022

Emily McCosker  
Director Strategy & Finance

<sup>1</sup> This refers to either: a development application number for a development consent under Part 4 of the *Environmental Planning and Assessment Act 1979* (EP&A Act), a State significant infrastructure approval under the previous Part 5.1 (now Part 5, Division 5.2) of the EP&A Act, a decision of a determining authority to carry out or approve the carrying out of an activity under Part 5 of the EP&A Act, or a biobank statement number or biodiversity certification number.

<sup>2</sup> This refers to a controlled action under the Commonwealth *Environmental Protection and Biodiversity Conservation Act 1999* for which a biodiversity offset obligation has been met through payment into the BCF.

## Statement confirming payment into the Biodiversity Conservation Fund for an offset obligation

Pursuant to section 6.33 of the *Biodiversity Conservation Act 2016*, the NSW Biodiversity Conservation Trust confirms that the following payments have been made into the Biodiversity Conservation Fund under section 6.30(1) of the Act to satisfy an obligation to retire biodiversity credits.

<b>Payment made by</b>		Rye Park Renewable Energy Pty Ltd ATF The Rye Park Wind Farm Trust			
<b>Date received</b>		28 October 2022			
<b>NSW statutory obligation reference<sup>1</sup></b>		SSD-6693-MOD 2			
<b>Commonwealth EPBC Act controlled action reference (if applicable)<sup>2</sup></b>		2020-8837			
<b>BCT Reference</b>		BCF460			
<b>Biodiversity credit retirement obligations satisfied by payment to the Biodiversity Conservation Fund:</b>					
<b>Biodiversity credit type (Credit ID and name)</b>	<b>Offset trading group</b>	<b>EPBC Act Controlled Action offset obligation (Y / N)</b>	<b>Number of credits</b>	<b>Cost per credit  (Exc. GST)</b>	<b>Total payment per credit type  (Exc. GST)</b>
289 - Mugga Ironbark - Inland Scribbly Gum - Red Box shrub/grass open forest on hills in the upper slopes subregion of the NSW South Western Slopes Bioregion	Upper Riverina Dry Sclerophyll Forests >=50% and <70%	Y	19	\$3,046.53	\$57,883.98
335 - Tussock grass - sedgeland fen - rushland - reedland wetland in impeded creeks in valleys in the upper slopes sub-region of the NSW South Western Slopes Bioregion	Inland Floodplain Swamps >=70% and <90%	Y	101	\$13,533.90	\$1,366,924.36
10211 - <i>Delma impar</i> (Striped Legless Lizard)	<i>Delma impar</i> (Striped Legless Lizard)	Y	227	\$677.71	\$153,839.07
10645 - <i>Polytelis swainsonii</i> (Superb Parrot)	<i>Polytelis swainsonii</i> (Superb Parrot)	Y	434	\$974.69	\$423,014.17
<b>Total (Exc. GST)</b>					<b>\$2,001,661.58</b>
<b>GST</b>					<b>\$200,166.16</b>
<b>Total (Inc. GST)</b>					<b>\$2,201,827.74</b>



31/10/2022

Emily McCosker  
**Director Strategy & Finance**

<sup>1</sup> This refers to either; a development application number for a development consent under Part 4 of the *Environmental Planning and Assessment Act 1979 (EP&A Act)*, a State significant infrastructure approval under the previous Part 5.1 (now Part 5, Division 5.2) of the EP&A Act, a decision of a determining authority to carry out or approve the carrying out of an activity under Part 5 of the EP&A Act, or a biobank statement number or biodiversity certification number.

<sup>2</sup> This refers to a controlled action under the Commonwealth *Environmental Protection and Biodiversity Conservation Act 1999* for which a biodiversity offset obligation has been met through payment into the BCF.



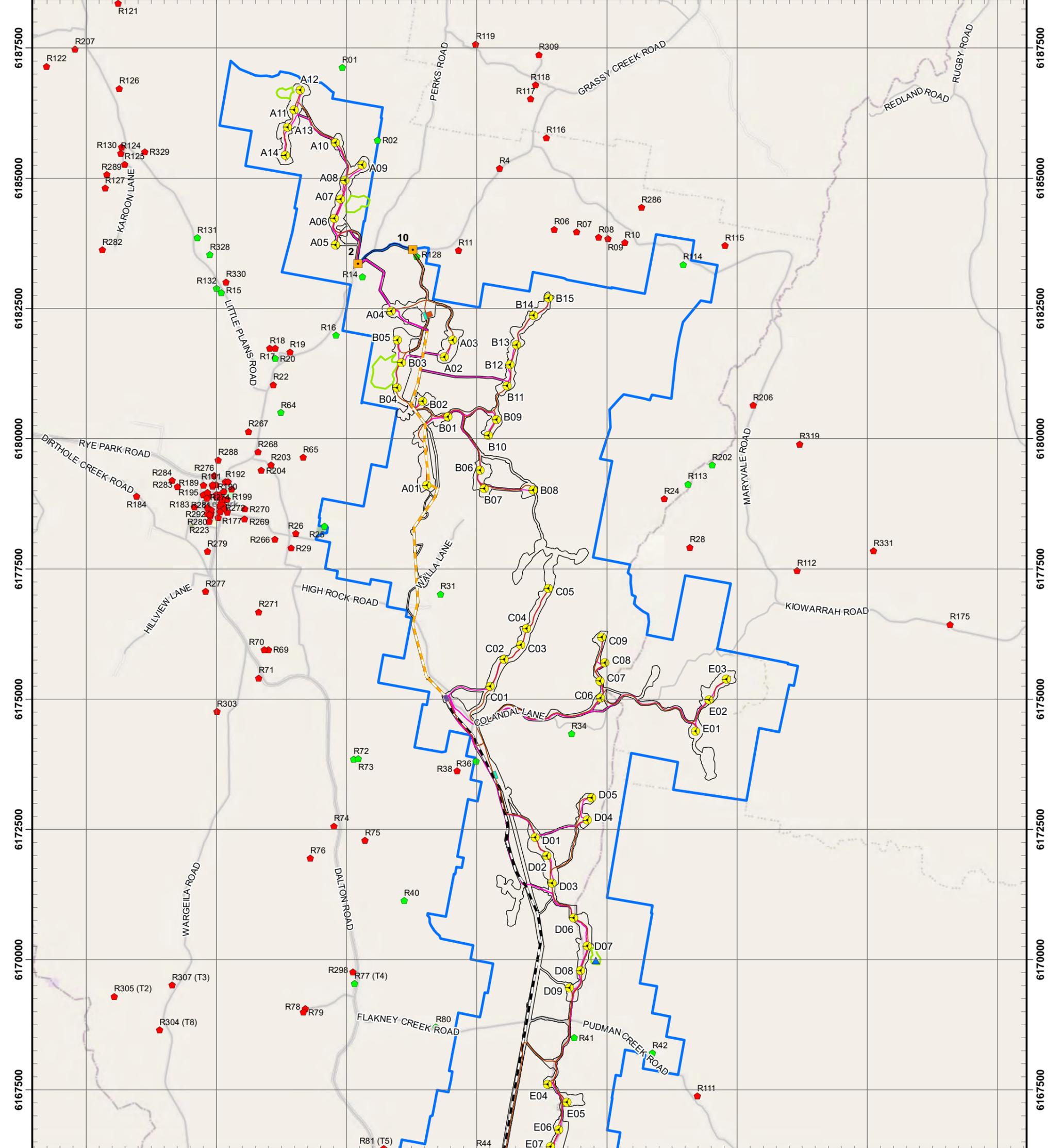
## ATTACHMENT 3: BSA CREDIT GENERATION

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PCT / Species Credit Species	Offset Trading Group	Credits required <sup>3</sup>	Anticipated credit generation from BSA						Total credits generated from BSA's	Remaining credit liability	Percentage of remaining credit requirement (%)
			Middle Arm	Jerrong	Totnes South	Echo	Coolong	Willow Vale			
289	Upper Riverina Dry Sclerophyll Forests >=50% and <70%	0	-	-	-	-	-	-	0	0	N/A
335	Inland Floodplain Swamps >=70% and <90%	0	-	-	-	-	-	5	5	0	N/A
350	White Box - Yellow Box - Blakely's Red Gum Grassy Woodland and Derived Native Grassland in the NSW North Coast, New England Tableland, Nandewar, Brigalow Belt South, Sydney Basin, South Eastern Highlands, NSW South West Slopes, South East Corner and Riverina Bioregions	874	-	-	1,967	920	-	40	2,927	0	100
351	Southern Tableland Dry Sclerophyll Forests >=50% and <70%	3,447	915	1,122	-	508	601	1,090	4,236	0	100
<b>Golden sun moth (<i>Synemon plana</i>)</b>		470	-	-	-	-	-	-	0	470	0
<b>Striped legless lizard (<i>Delma impar</i>)</b>		43	-	-	-	-	-	-	0	43	0
<b>Superb parrot (breeding habitat) (<i>Polytelis swainsonii</i>)</b>		59	-	-	6	-	-	-	6	53	11
<b>Squirrel glider (<i>Petaurus norfolcensis</i>)</b>		2,339	-	-	372	-	-	-	372	1,967	18

<sup>3</sup> Credits required based on final credit liability (Umwelt, October 2023) and subtracts previous payments made into the BCF.

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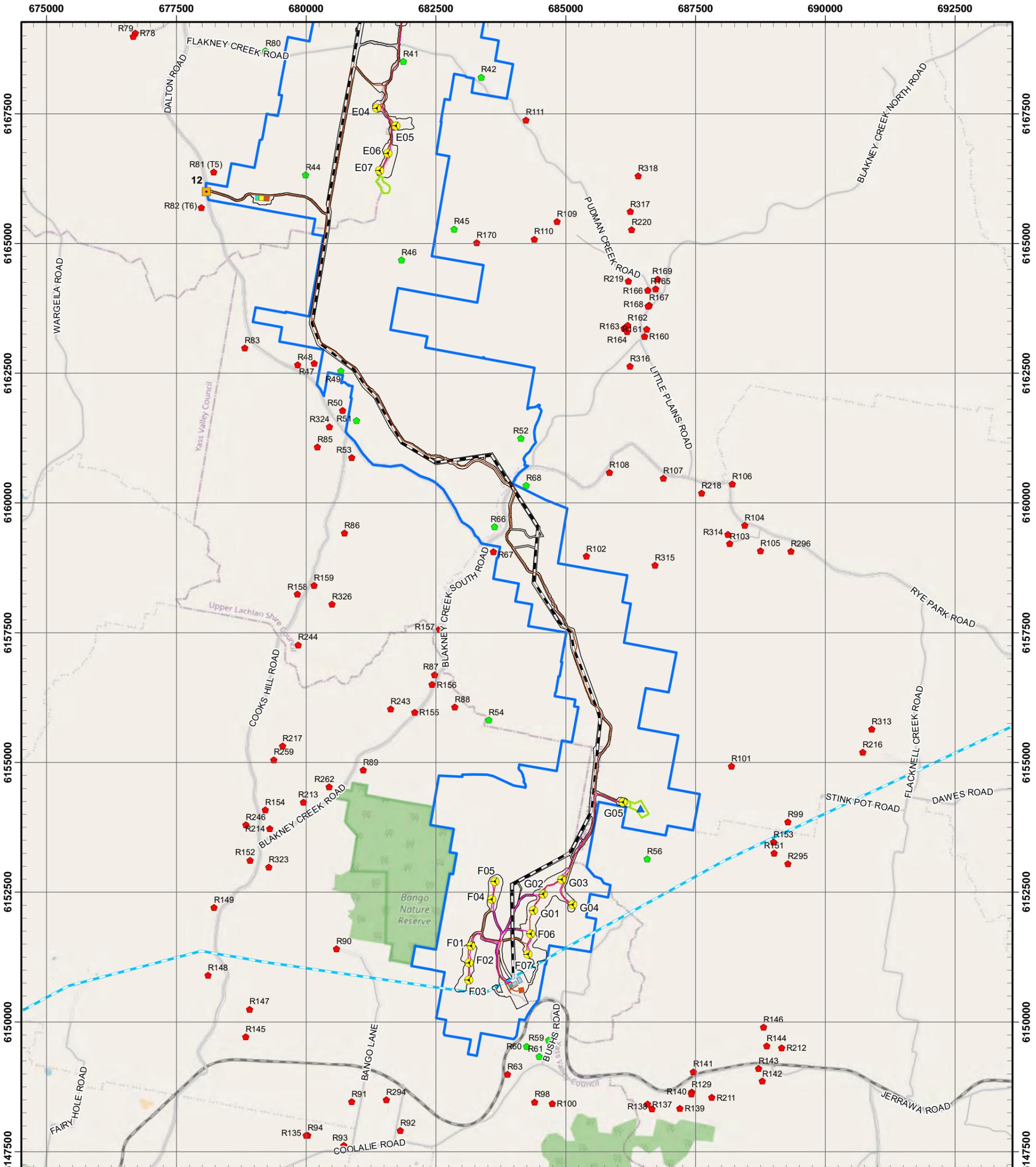
<ul style="list-style-type: none"> <li>Wind Turbine Layout</li> <li>Site Access Points</li> <li>Permanent Met Masts</li> <li>Access Tracks</li> <li>Underground Cable (33kV)</li> <li>Transmission Line (33kV)</li> <li>Transmission Line (330kV)</li> <li>TransGrid Transmission Line (330kV)</li> <li>Connection Substation</li> <li>Collector Substation</li> <li>Batch Plants</li> </ul>	<ul style="list-style-type: none"> <li>O&amp;M Facility</li> <li>Construction Compounds</li> <li>Laydown Areas</li> <li>Development Corridor – Wind Farm</li> <li>Development Corridor – Permanent Met Masts</li> <li>Project Boundary</li> </ul>	<p><b>Residences</b></p> <ul style="list-style-type: none"> <li>Associated</li> <li>Non-Associated</li> </ul>	<p>Date: 13/10/2023 Version: A</p> <p>0 2,500 Meters</p> <p>GDA 1994 MGA Zone 55 1:70,000</p>	
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# Rye Park Wind Farm

## Completed Layout Plan





**Legend**

Wind Turbine Layout	O&M Facility
Site Access Points	Construction Compounds
Permanent Met Masts	Laydown Areas
Access Tracks	Development Corridor – Wind Farm
Underground Cable (33kV)	Development Corridor – Permanent Met Masts
Transmission Line (33kV)	Project Boundary
Transmission Line (330kV)	<b>Residences</b>
TransGrid Transmission Line (330kV)	Associated
Connection Substation	Non-Associated
Collector Substation	
Batch Plants	

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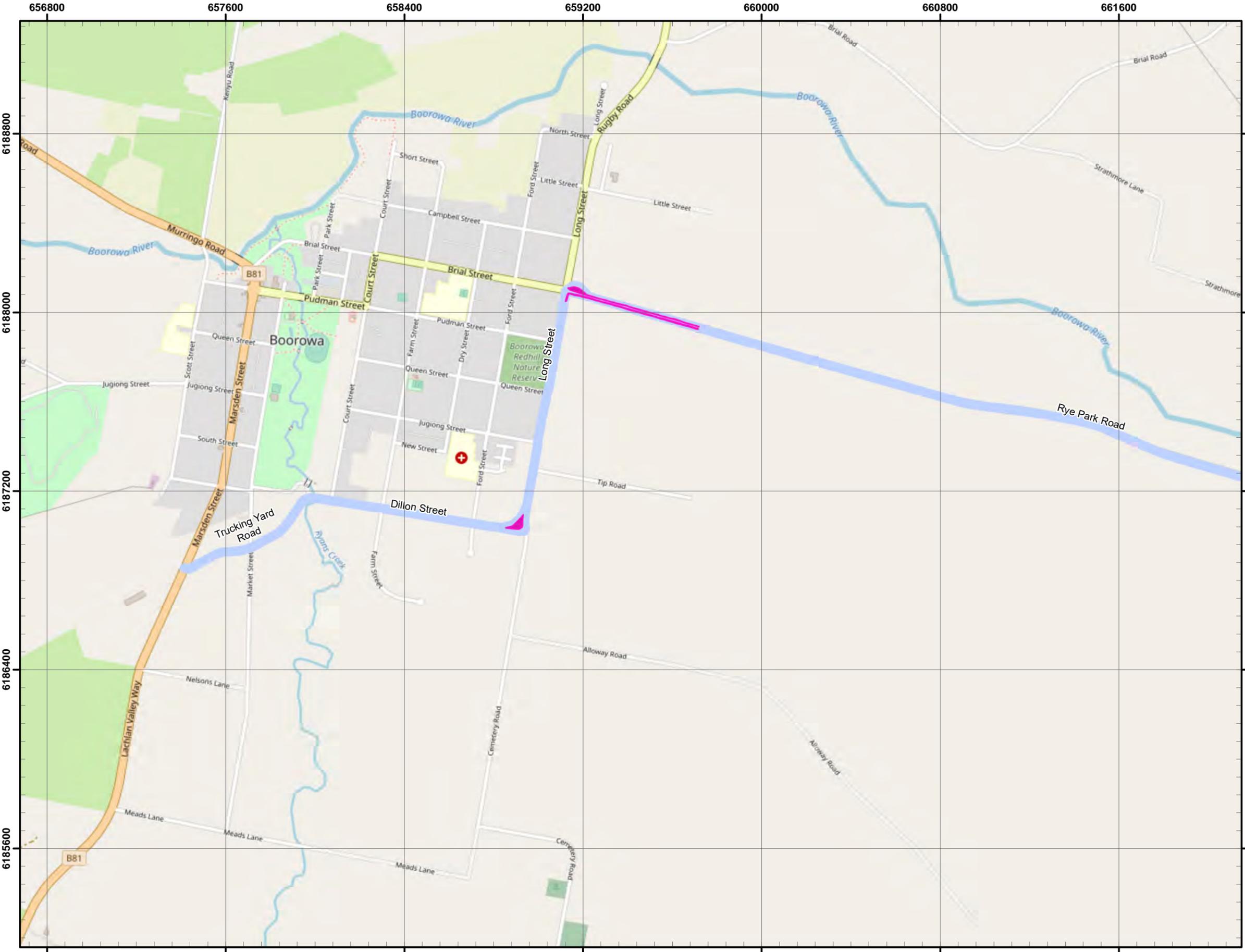
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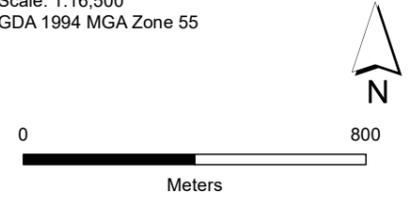


- Project Area - Road Upgrades
- Completed Development Footprint – Road Upgrades

**Note 1.** The Project Boundary is based on publicly available cadastre and during detailed design will be updated for the actual property boundaries and road reserves.

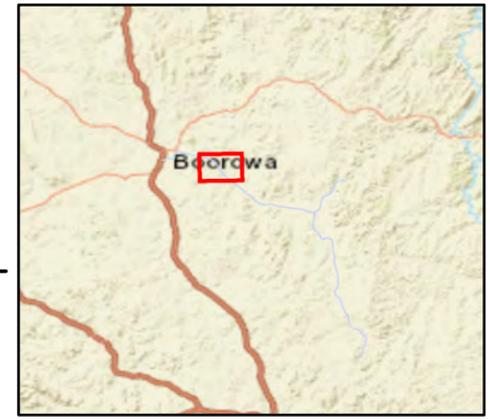
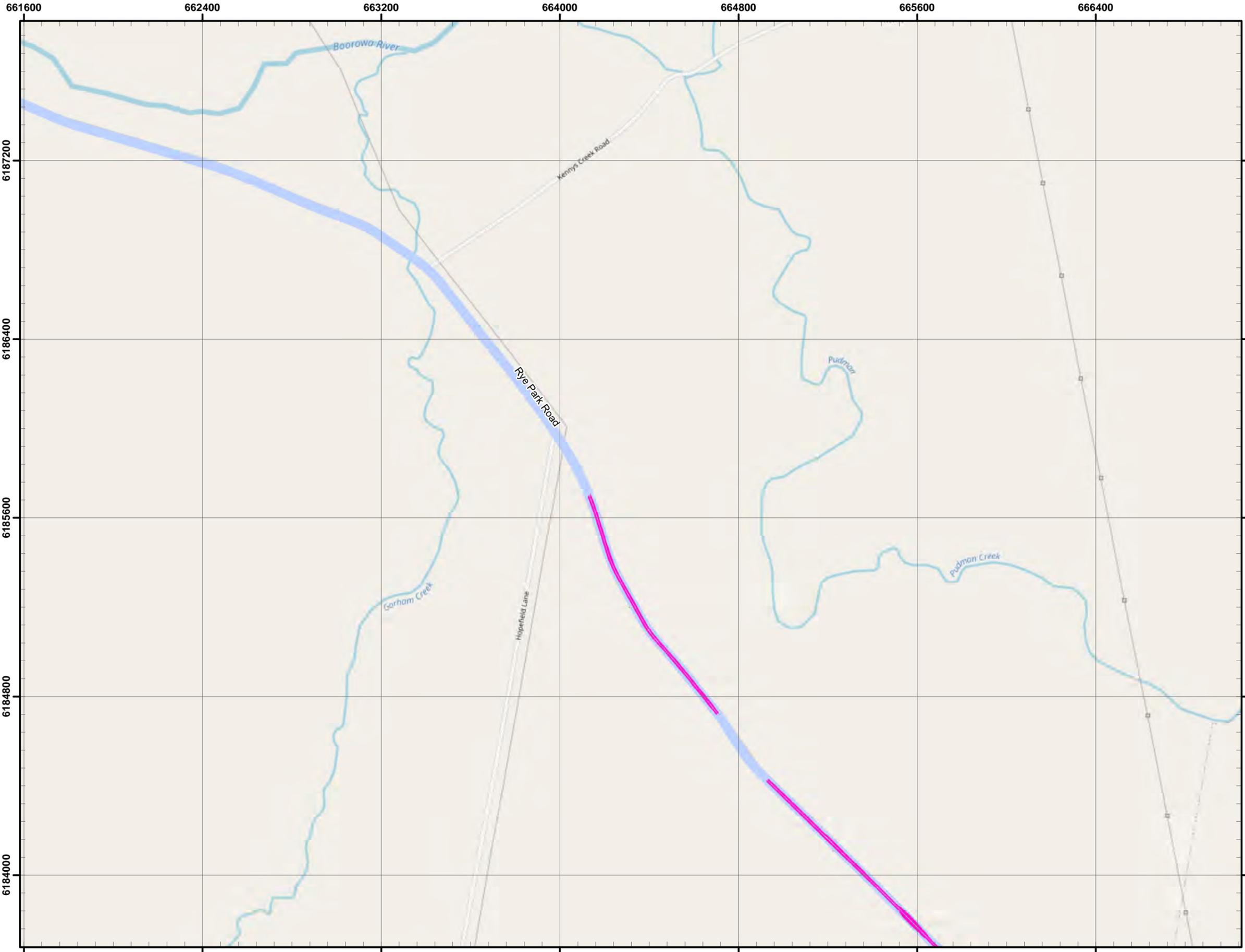
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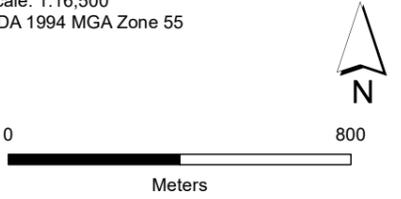


- Project Area - Road Upgrades
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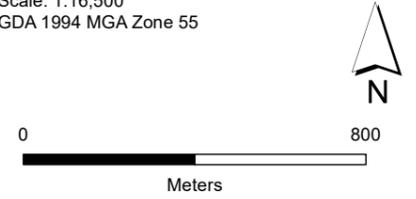


- Project Area - Road Upgrades
- Completed Development Footprint - Road Upgrades

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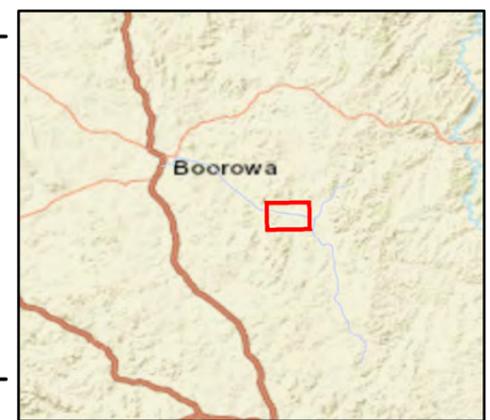
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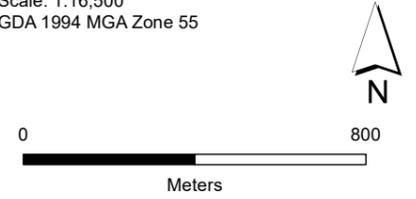


- Project Area - Road Upgrades
- Completed Development Footprint - Road Upgrades

**Note 1.** The Project Boundary is based on publicly available cadastre and during detailed design will be updated for the actual property boundaries and road reserves.

Date: 13/10/2023  
Version: A

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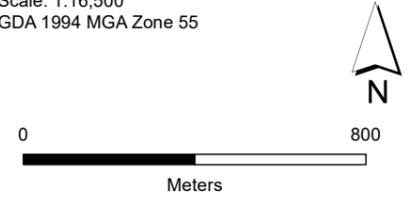


- Project Area - Road Upgrades
- Completed Development Footprint - Road Upgrades

**Note 1.** The Project Boundary is based on publicly available cadastre and during detailed design will be updated for the actual property boundaries and road reserves.

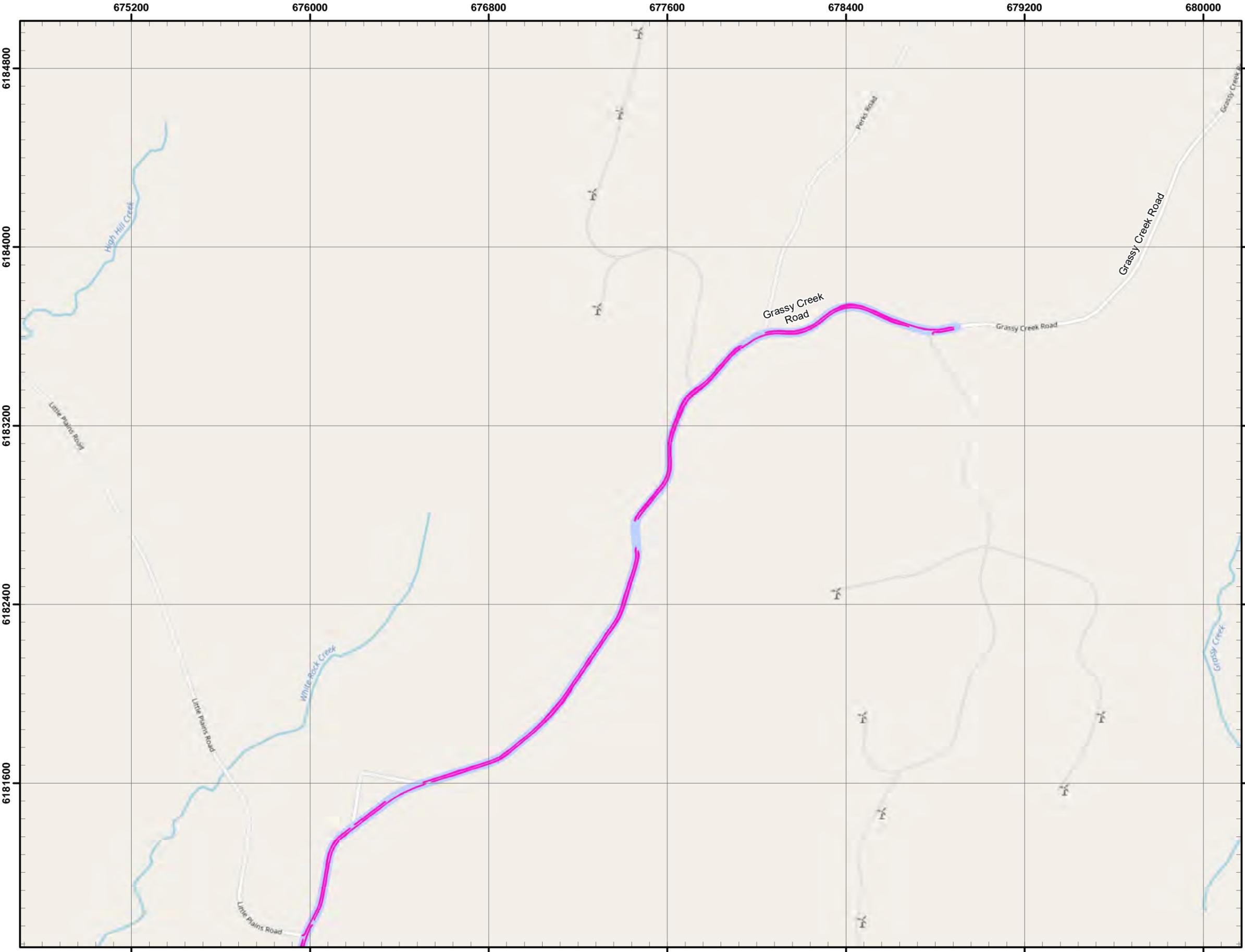
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GDA 1994 MGA Zone 55



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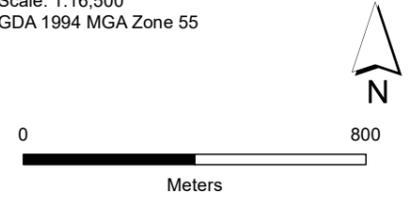


- Project Area - Road Upgrades
- Completed Development Footprint - Road Upgrades

**Note 1.** The Project Boundary is based on publicly available cadastre and during detailed design will be updated for the actual property boundaries and road reserves.

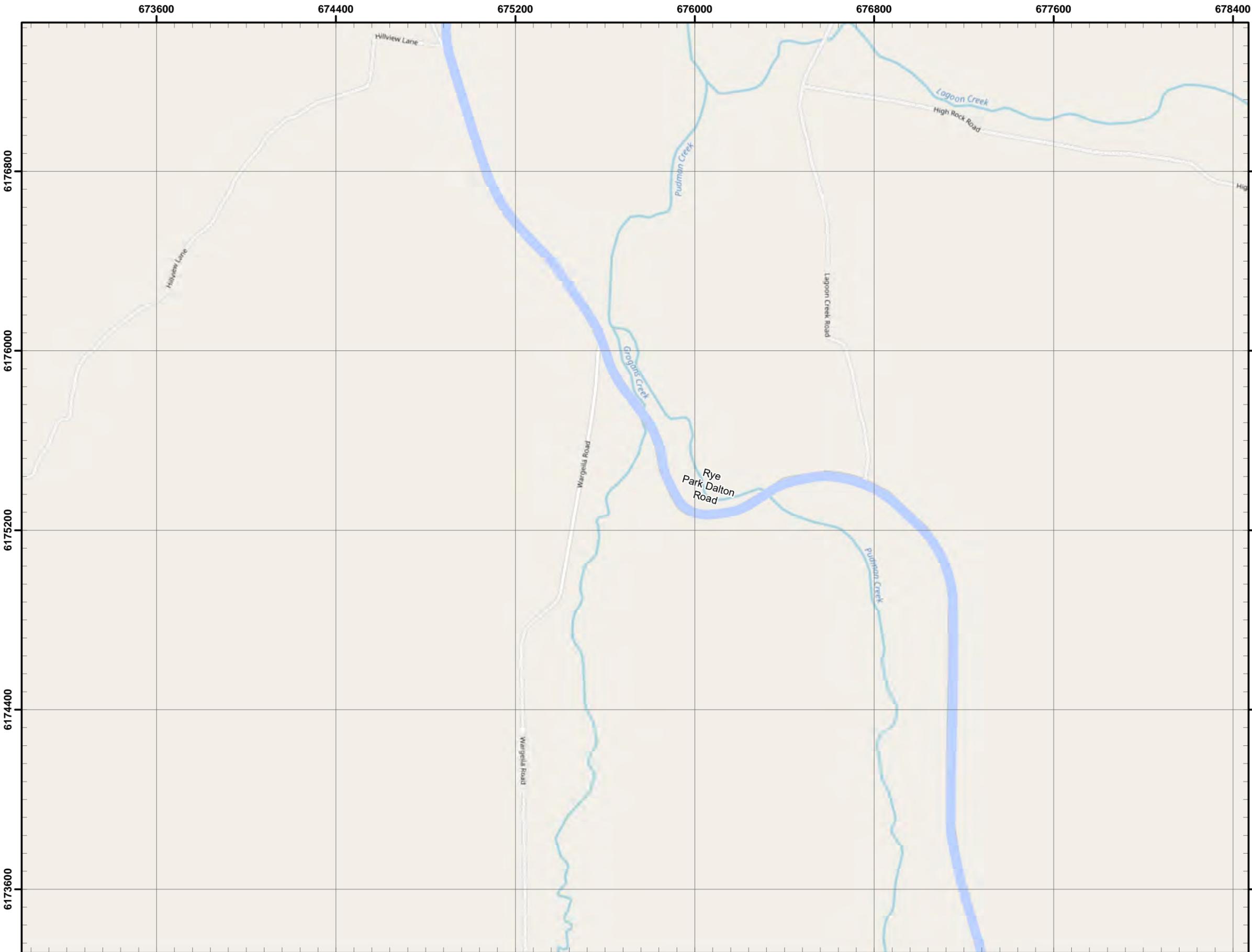
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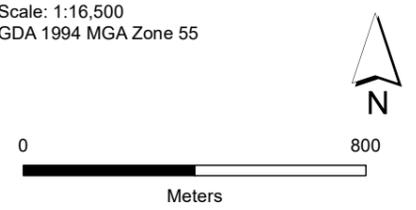


- Project Area - Road Upgrades
- Completed Development Footprint - Road Upgrades

**Note 1. The Project Boundary is based on publicly available cadastre and during detailed design will be updated for the actual property boundaries and road reserves.**

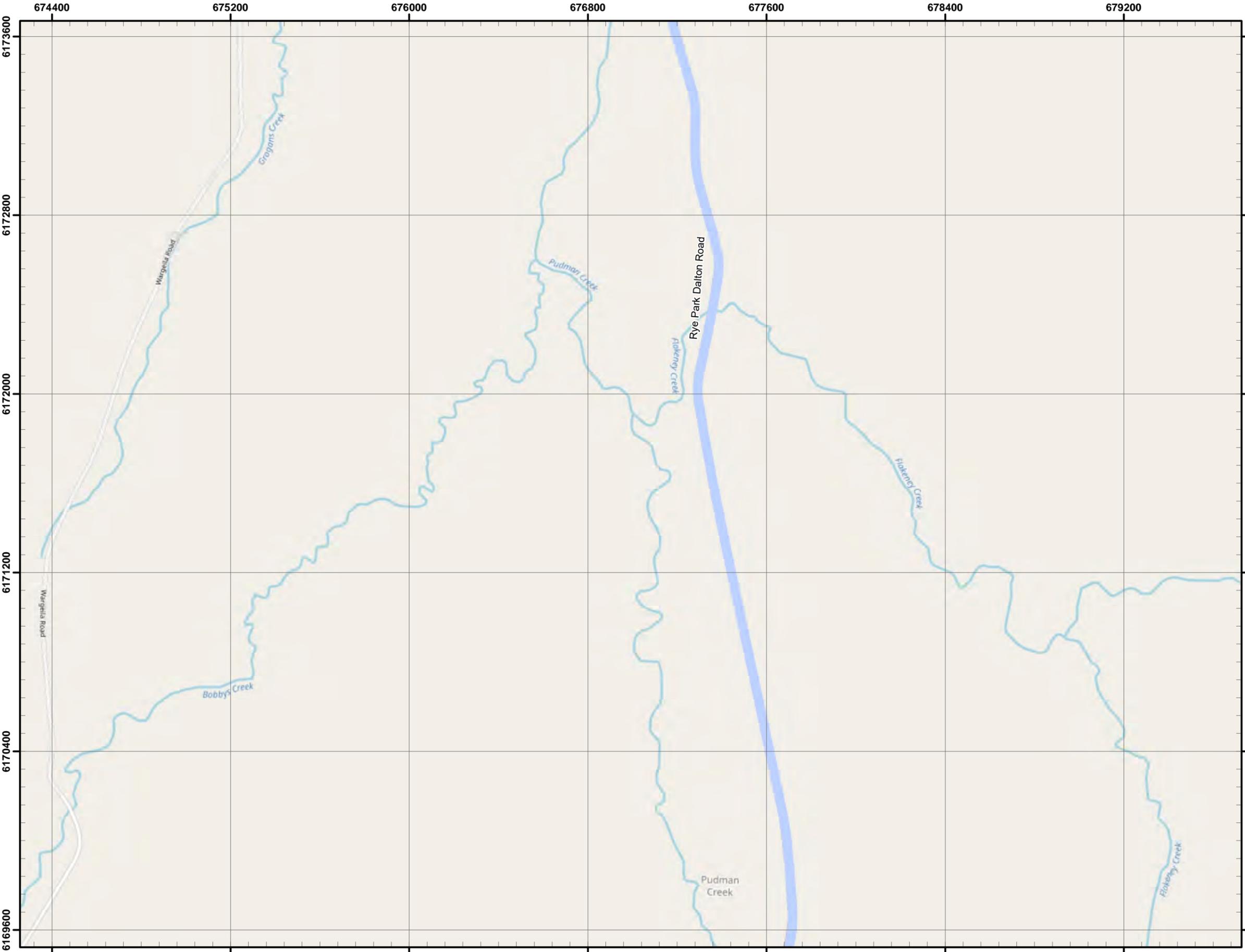
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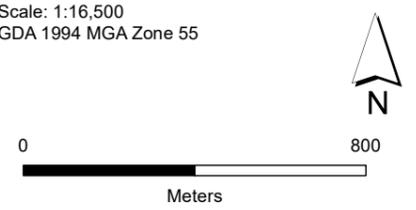


- Project Area - Road Upgrades
- Completed Development Footprint - Road Upgrades

**Note 1.** The Project Boundary is based on publicly available cadastre and during detailed design will be updated for the actual property boundaries and road reserves.

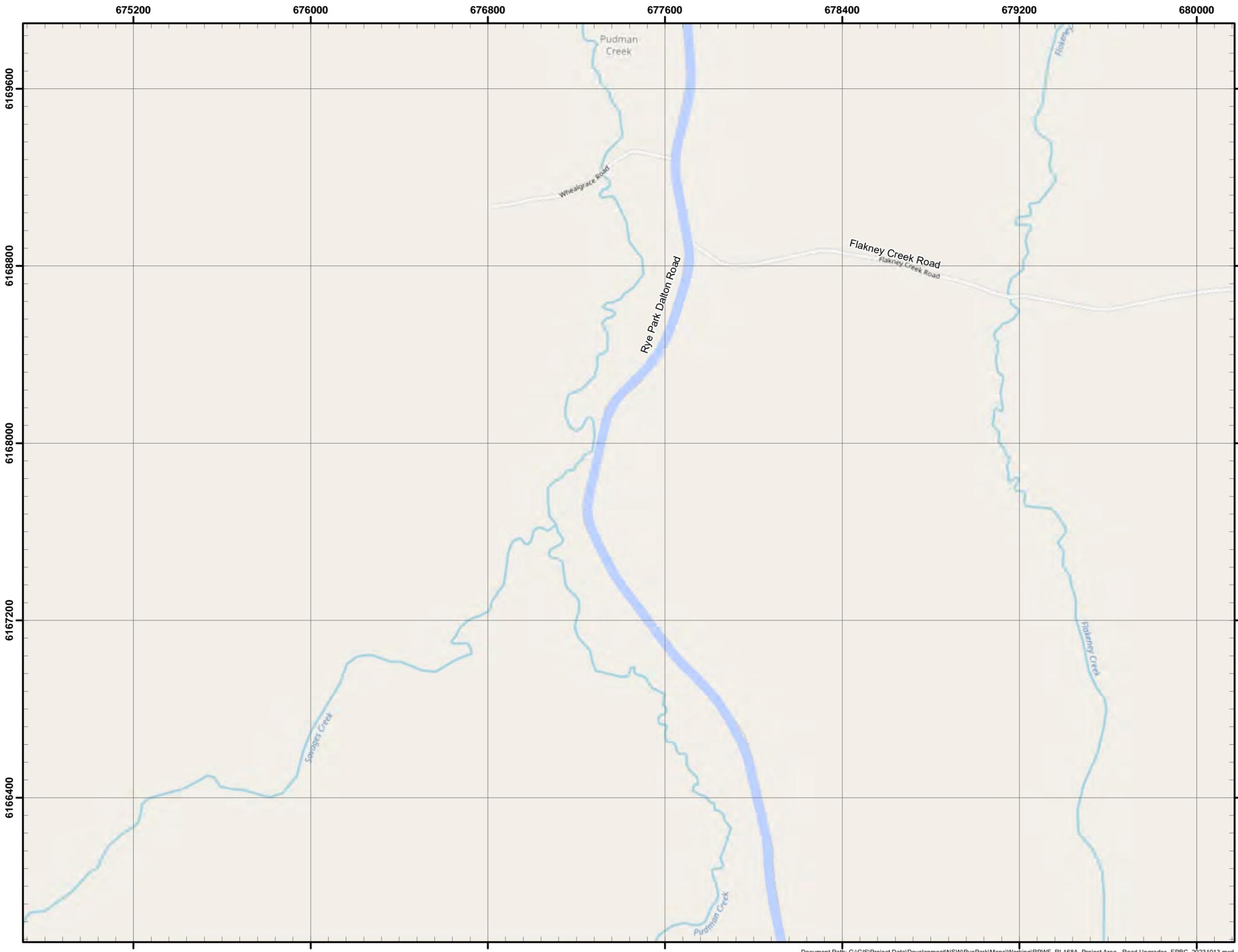
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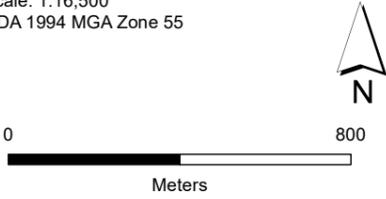


- Project Area - Road Upgrades
- Completed Development Footprint - Road Upgrades

**Note 1.** The Project Boundary is based on publicly available cadastre and during detailed design will be updated for the actual property boundaries and road reserves.

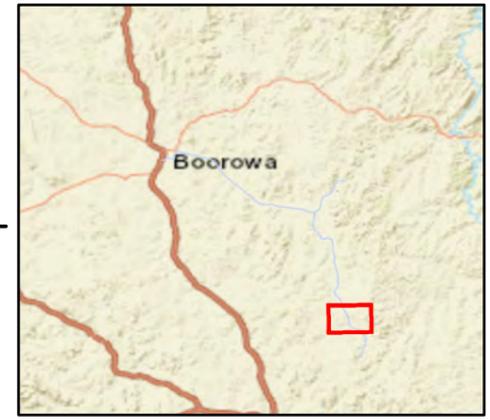
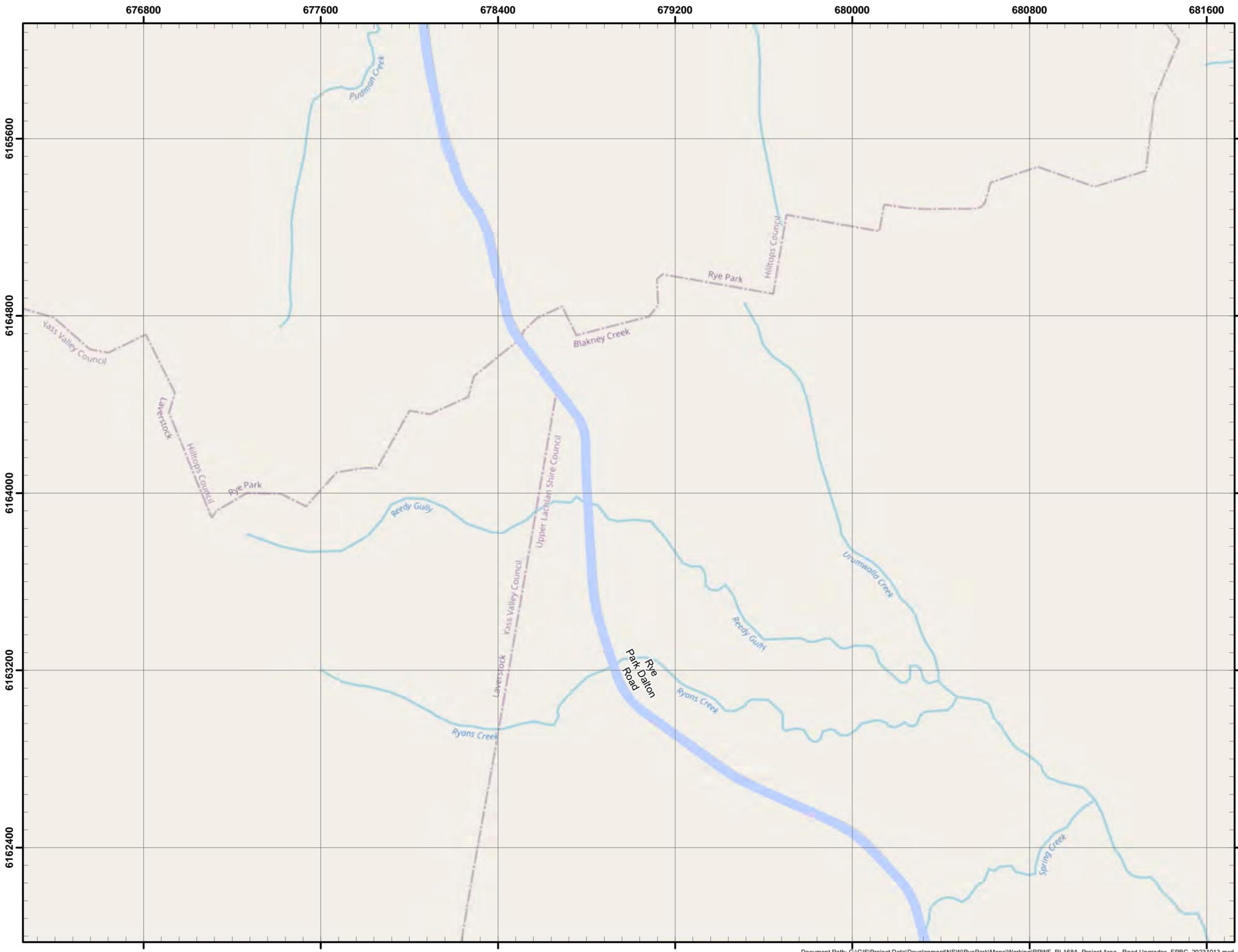
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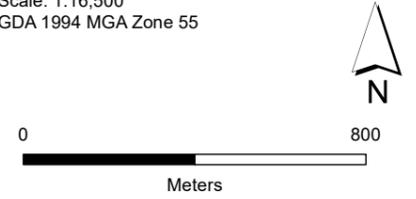


- Project Area - Road Upgrades
- Completed Development Footprint - Road Upgrades

**Note 1. The Project Boundary is based on publicly available cadastre and during detailed design will be updated for the actual property boundaries and road reserves.**

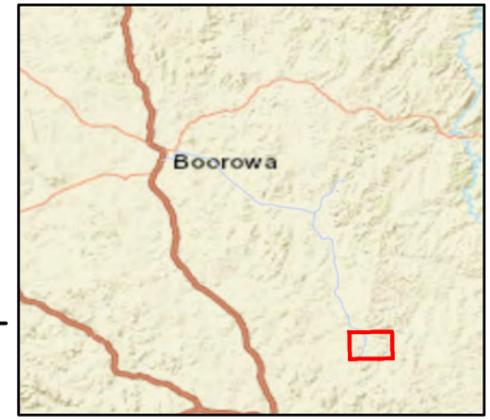
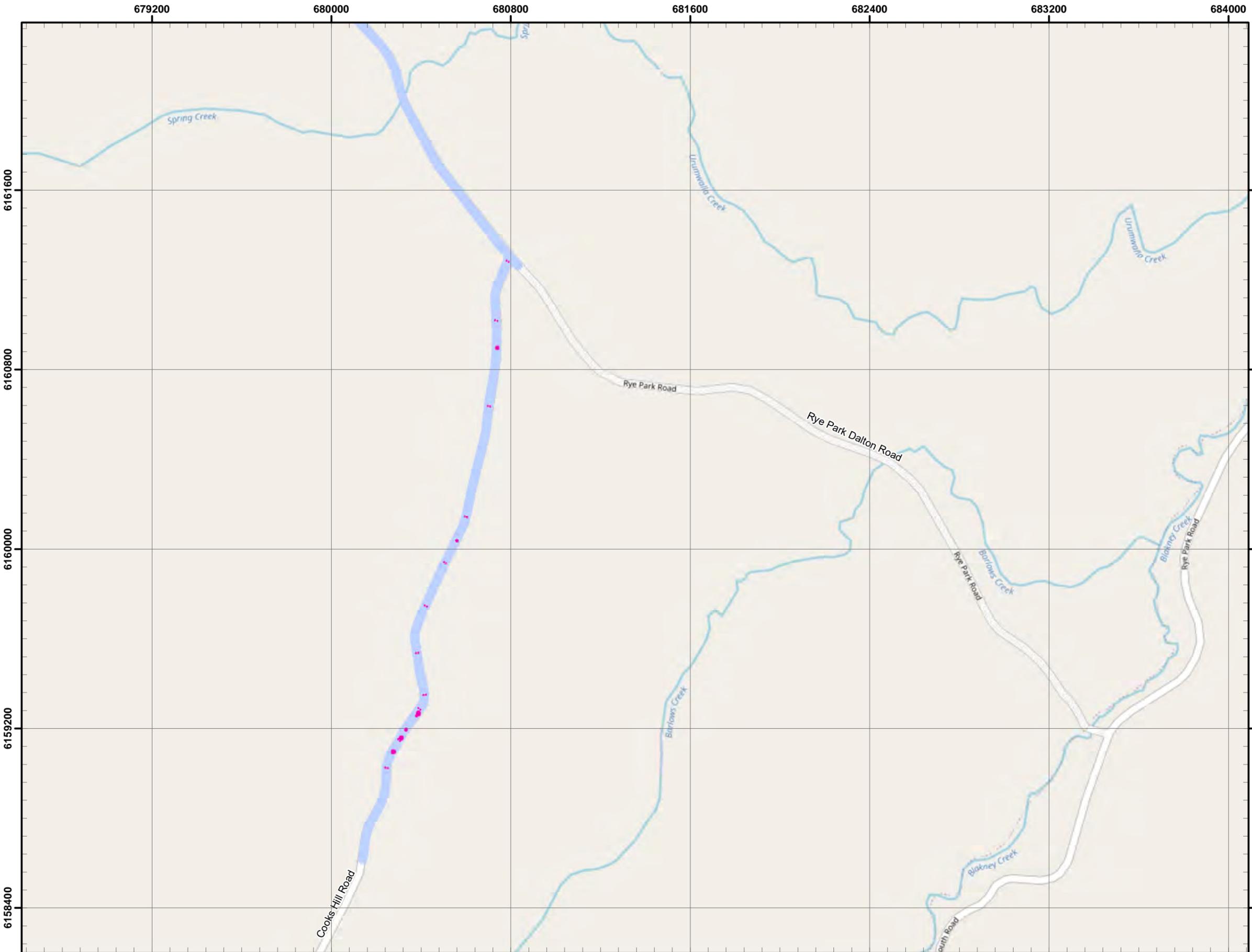
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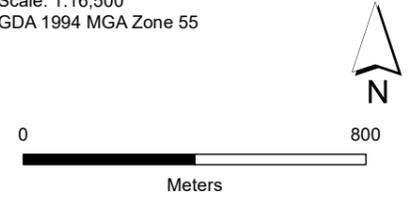


- Project Area - Road Upgrades
- Completed Development Footprint - Road Upgrades

**Note 1. The Project Boundary is based on publicly available cadastre and during detailed design will be updated for the actual property boundaries and road reserves.**

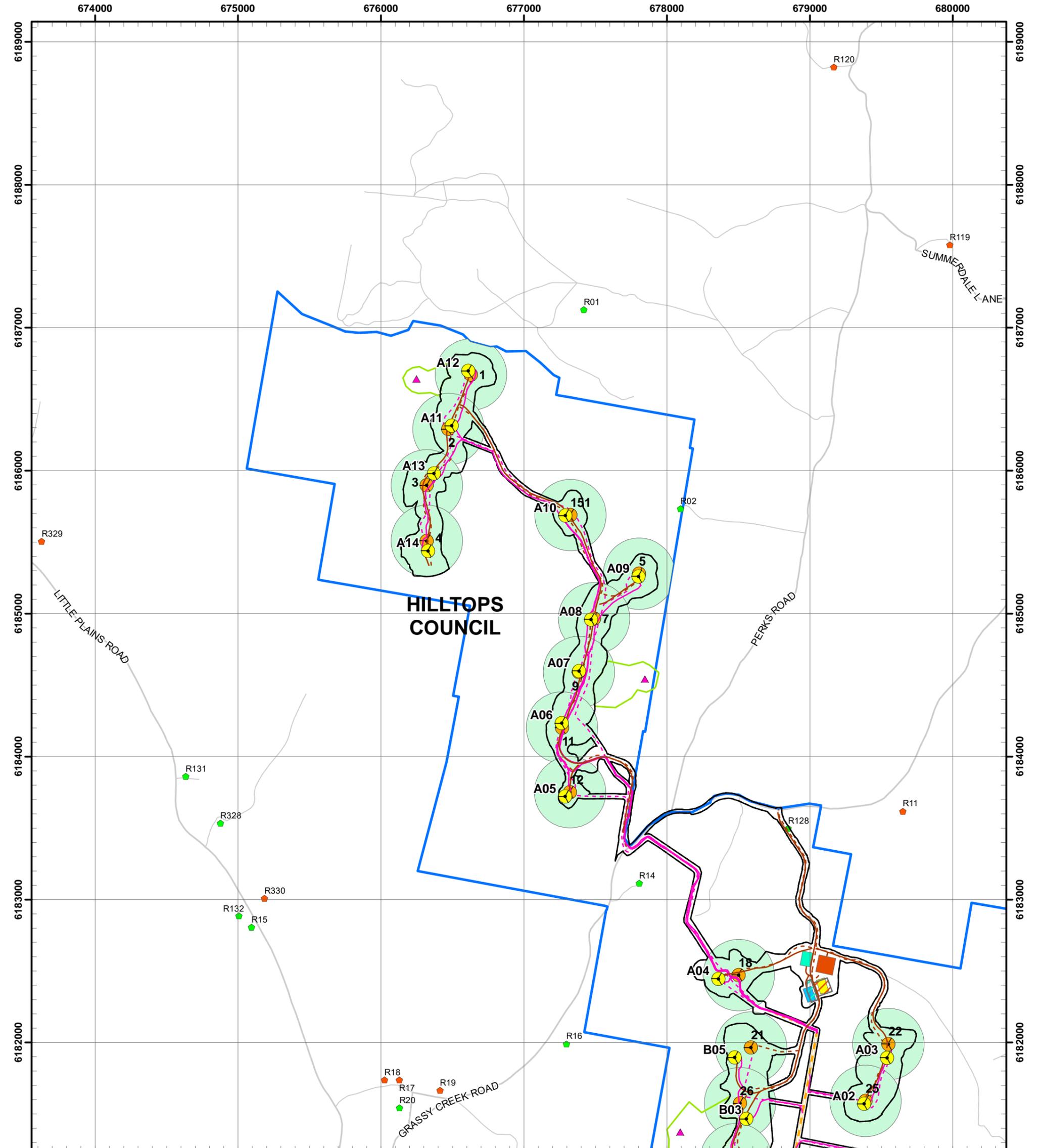
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Completed Layout	Approved Project	Local Government Area
Wind Turbine Layout	Wind Turbine Layout	Local Government Area
Permanent Met Masts	Micro-siting Areas	Transgrid Transmission Line (330kV)
Transmission Line (33kV)	Permanent Met Masts	Project Boundary
Transmission Line (330kV)	Transmission Line (33kV)	
Underground Cable (33kV)	Transmission Line (Up to 330kV)	
Access Tracks	Underground Cable (33kV)	
Connection Substation	Access Tracks	
Collector Substation	Collector Substation	
O&M Facility	Connection Substation	
Construction Compounds	O&M Facilities	
Batch Plants	Temporary Construction Compounds	
Laydown Areas	Temporary Batch Plants	
Development Corridor	Temporary Laydown Areas	
	Development Corridor	
	Development Corridor - Permanent Met Masts	

Date: 13/10/2023  
Version: A

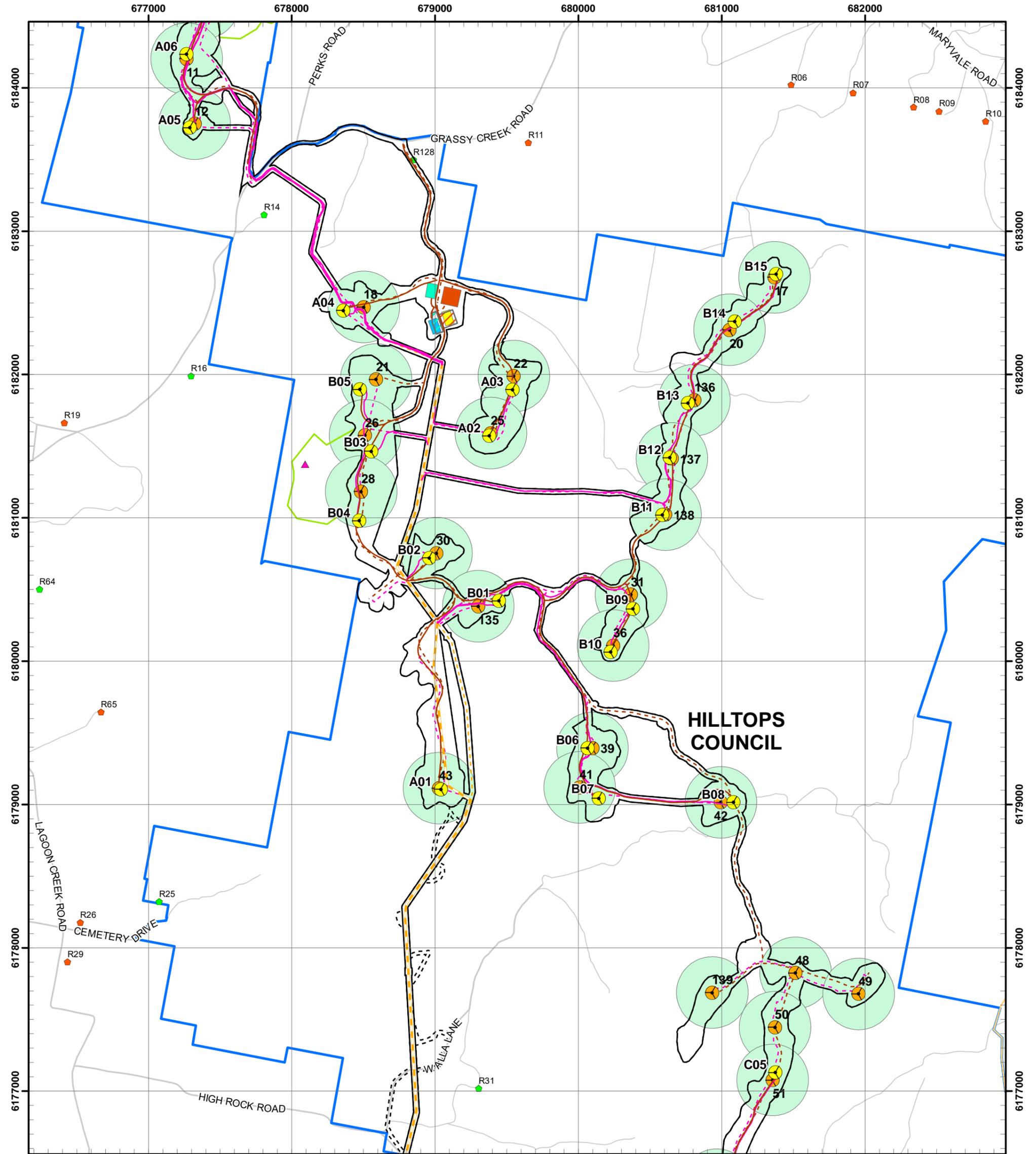
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Completed Layout	Approved Project	Local Government Area
Wind Turbine Layout	Wind Turbine Layout	Local Government Area
Permanent Met Masts	Micro-siting Areas	Transgrid Transmission Line (330kV)
Transmission Line (33kV)	Permanent Met Masts	Project Boundary
Transmission Line (330kV)	Transmission Line (33kV)	
Underground Cable (33kV)	Transmission Line (Up to 330kV)	
Access Tracks	Underground Cable (33kV)	
Connection Substation	Access Tracks	
Collector Substation	Collector Substation	
O&M Facility	Connection Substation	
Construction Compounds	O&M Facilities	
Batch Plants	Temporary Construction Compounds	
Laydown Areas	Temporary Batch Plants	
Development Corridor	Temporary Laydown Areas	
	Development Corridor	
	Development Corridor - Permanent Met Masts	

Date: 13/10/2023  
Version: A



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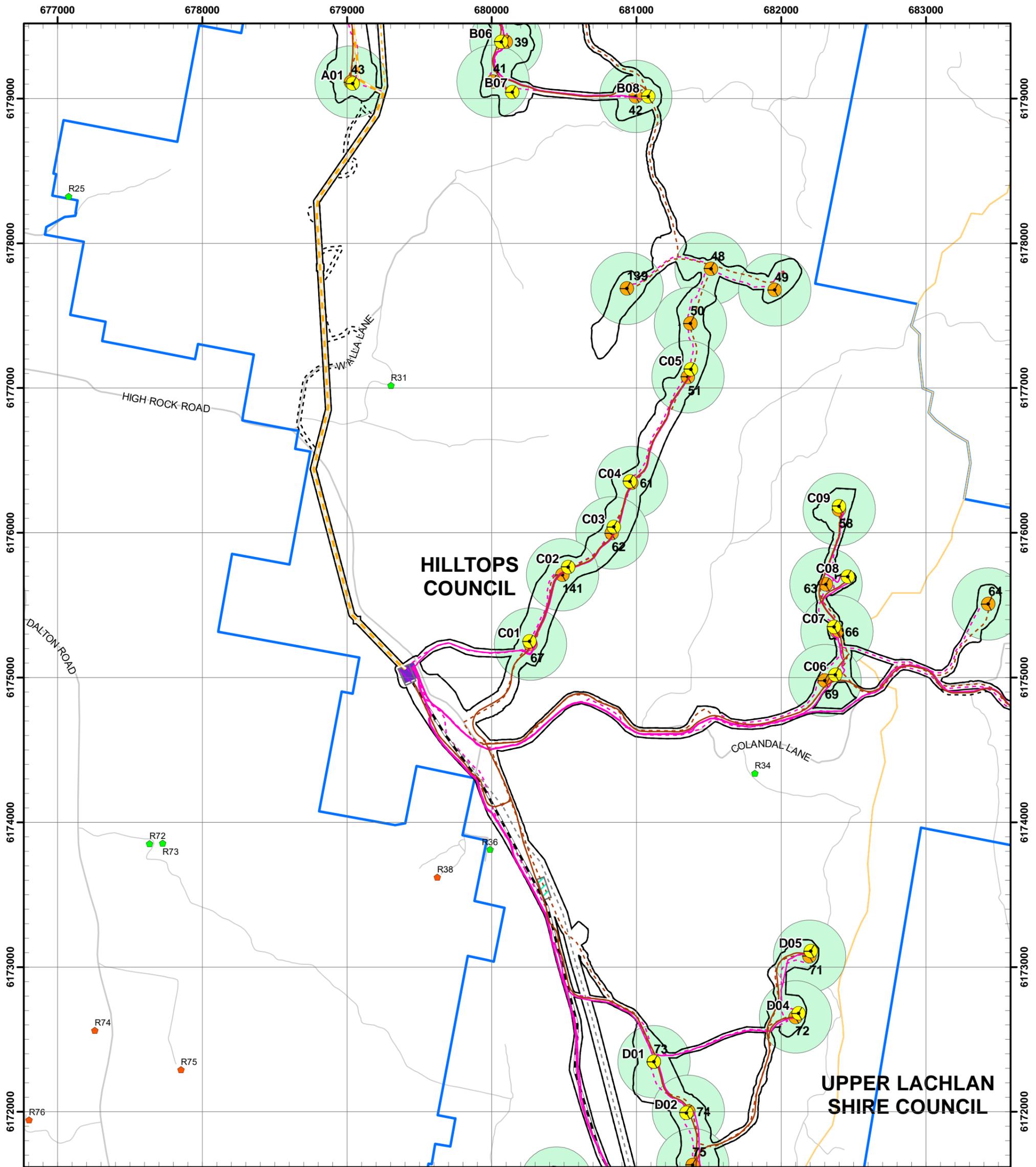


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# Rye Park Wind Farm

## Infrastructure Changes





Completed Layout	Approved Project	Local Government Area
Wind Turbine Layout	Wind Turbine Layout	Local Government Area
Permanent Met Masts	Micro-siting Areas	Transgrid Transmission Line (330kV)
Transmission Line (33kV)	Permanent Met Masts	Project Boundary
Transmission Line (330kV)	Transmission Line (Up to 330kV)	
Underground Cable (33kV)	Underground Cable (33kV)	
Access Tracks	Access Tracks	
Connection Substation	Collector Substation	
Collector Substation	Connection Substation	
O&M Facility	O&M Facilities	
Construction Compounds	Temporary Construction Compounds	
Batch Plants	Temporary Batch Plants	
Laydown Areas	Temporary Laydown Areas	
Development Corridor	Development Corridor	
	Development Corridor - Permanent Met Masts	

Date: 13/10/2023  
Version: A

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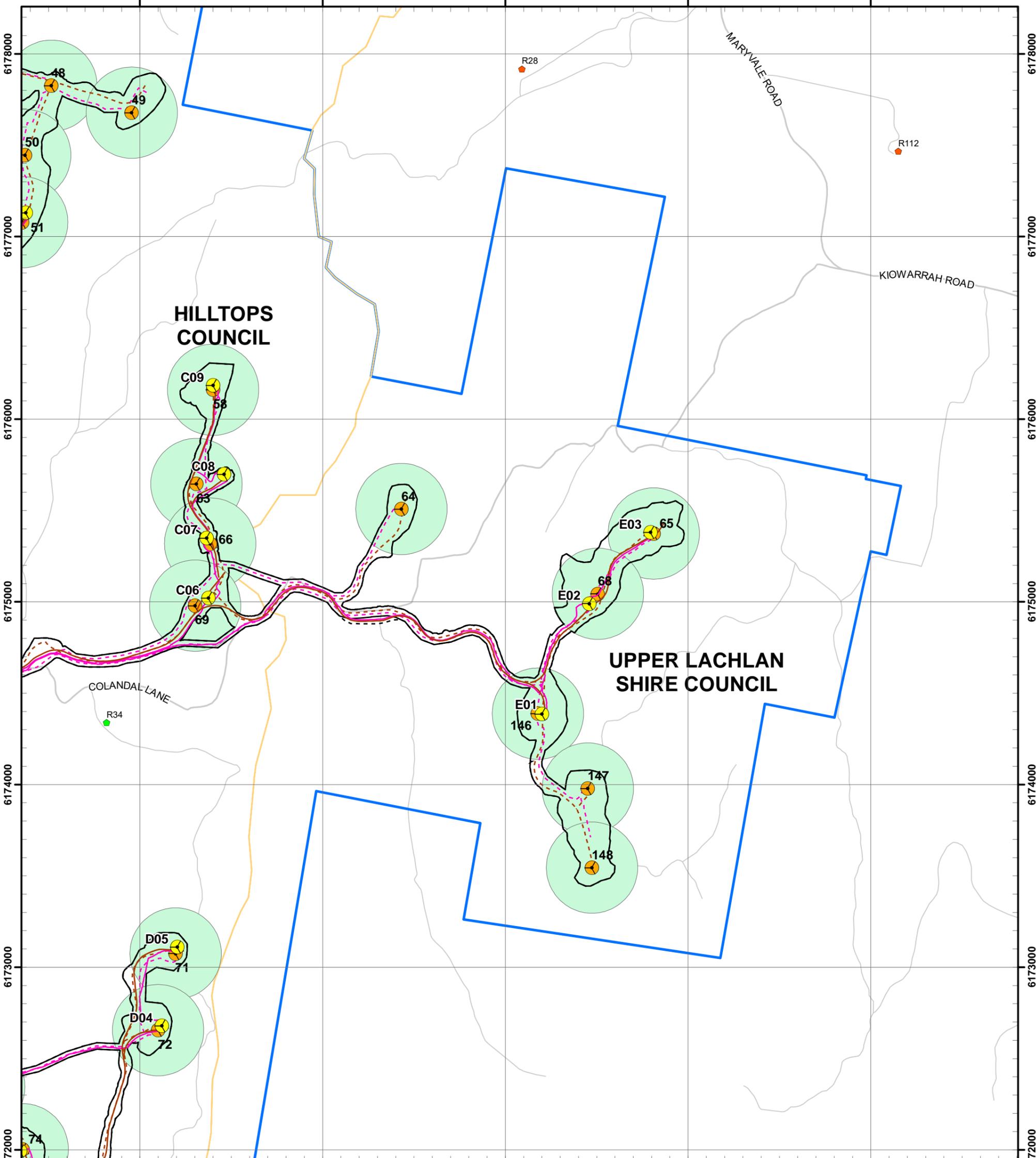
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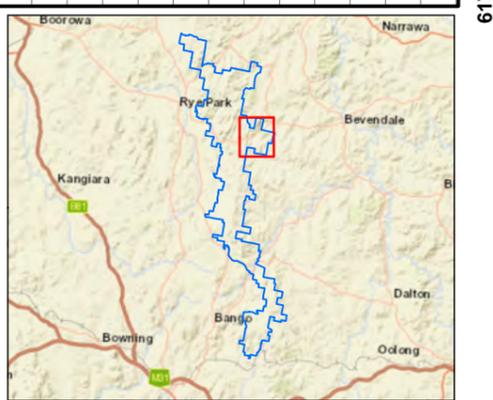
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Completed Layout	Approved Project	Local Government Area
Wind Turbine Layout	Wind Turbine Layout	Local Government Area
Permanent Met Masts	Micro-siting Areas	Transgrid Transmission Line (330kV)
Transmission Line (33kV)	Permanent Met Masts	Project Boundary
Transmission Line (330kV)	Transmission Line (33kV)	
Underground Cable (33kV)	Transmission Line (Up to 330kV)	
Access Tracks	Underground Cable (33kV)	
Connection Substation	Access Tracks	
Collector Substation	Collector Substation	
O&M Facility	Connection Substation	
Construction Compounds	O&M Facilities	
Batch Plants	Temporary Construction Compounds	
Laydown Areas	Temporary Batch Plants	
Development Corridor	Temporary Laydown Areas	
	Development Corridor	
	Development Corridor - Permanent Met Masts	

Date: 13/10/2023  
Version: A

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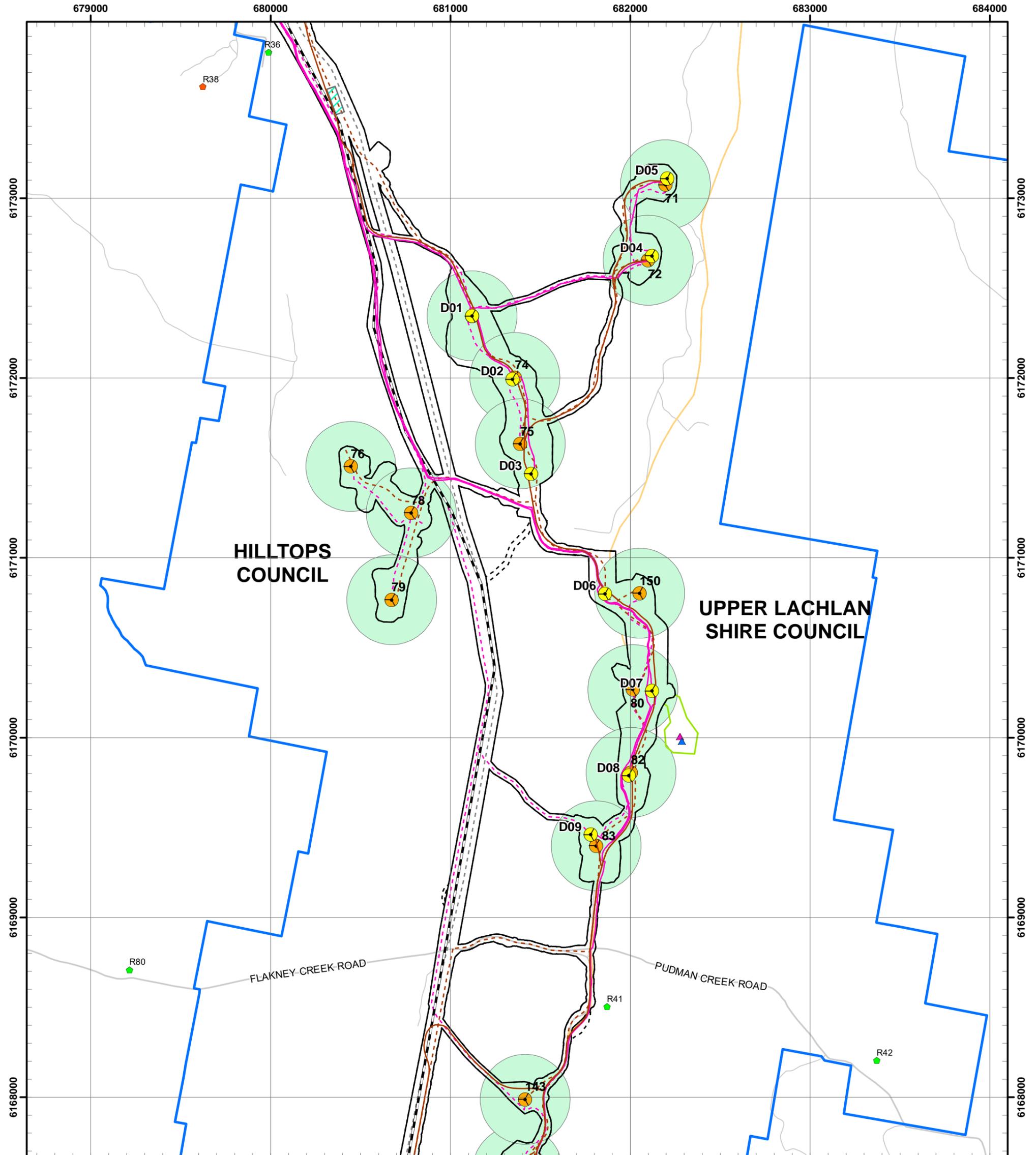


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# Rye Park Wind Farm

## Infrastructure Changes

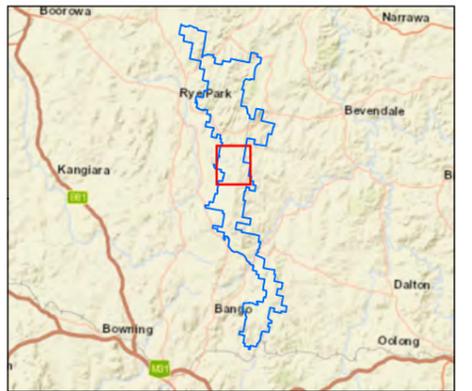




Completed Layout	Approved Project	Local Government Area
Wind Turbine Layout	Wind Turbine Layout	Local Government Area
Permanent Met Masts	Micro-siting Areas	Transgrid Transmission Line (330kV)
Transmission Line (33kV)	Permanent Met Masts	Project Boundary
Transmission Line (330kV)	Transmission Line (33kV)	
Underground Cable (33kV)	Transmission Line (Up to 330kV)	
Access Tracks	Underground Cable (33kV)	
Connection Substation	Access Tracks	
Collector Substation	Collector Substation	
O&M Facility	Connection Substation	
Construction Compounds	O&M Facilities	
Batch Plants	Temporary Construction Compounds	
Laydown Areas	Temporary Batch Plants	
Development Corridor	Temporary Laydown Areas	
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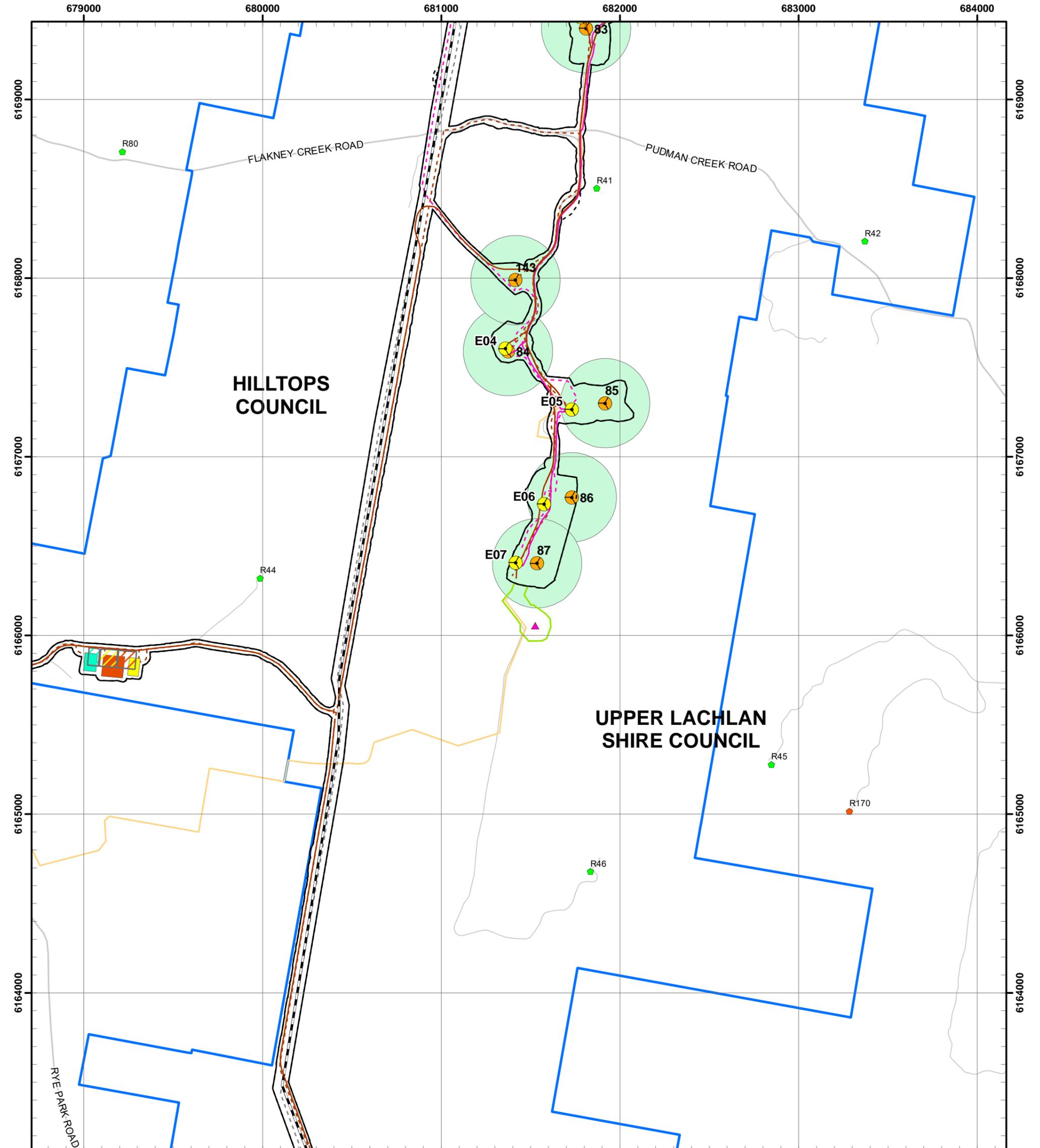
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Completed Layout	Approved Project	Local Government Area
Wind Turbine Layout	Wind Turbine Layout	Local Government Area
Permanent Met Masts	Micro-siting Areas	Transgrid Transmission Line (330kV)
Transmission Line (33kV)	Permanent Met Masts	Project Boundary
Transmission Line (330kV)	Transmission Line (33kV)	
Underground Cable (33kV)	Transmission Line (Up to 330kV)	
Access Tracks	Underground Cable (33kV)	
Connection Substation	Access Tracks	
Collector Substation	Collector Substation	
O&M Facility	Connection Substation	
Construction Compounds	O&M Facilities	
Batch Plants	Temporary Construction Compounds	
Laydown Areas	Temporary Batch Plants	
Development Corridor	Temporary Laydown Areas	
	Development Corridor	
	Development Corridor - Permanent Met Masts	

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Version: A

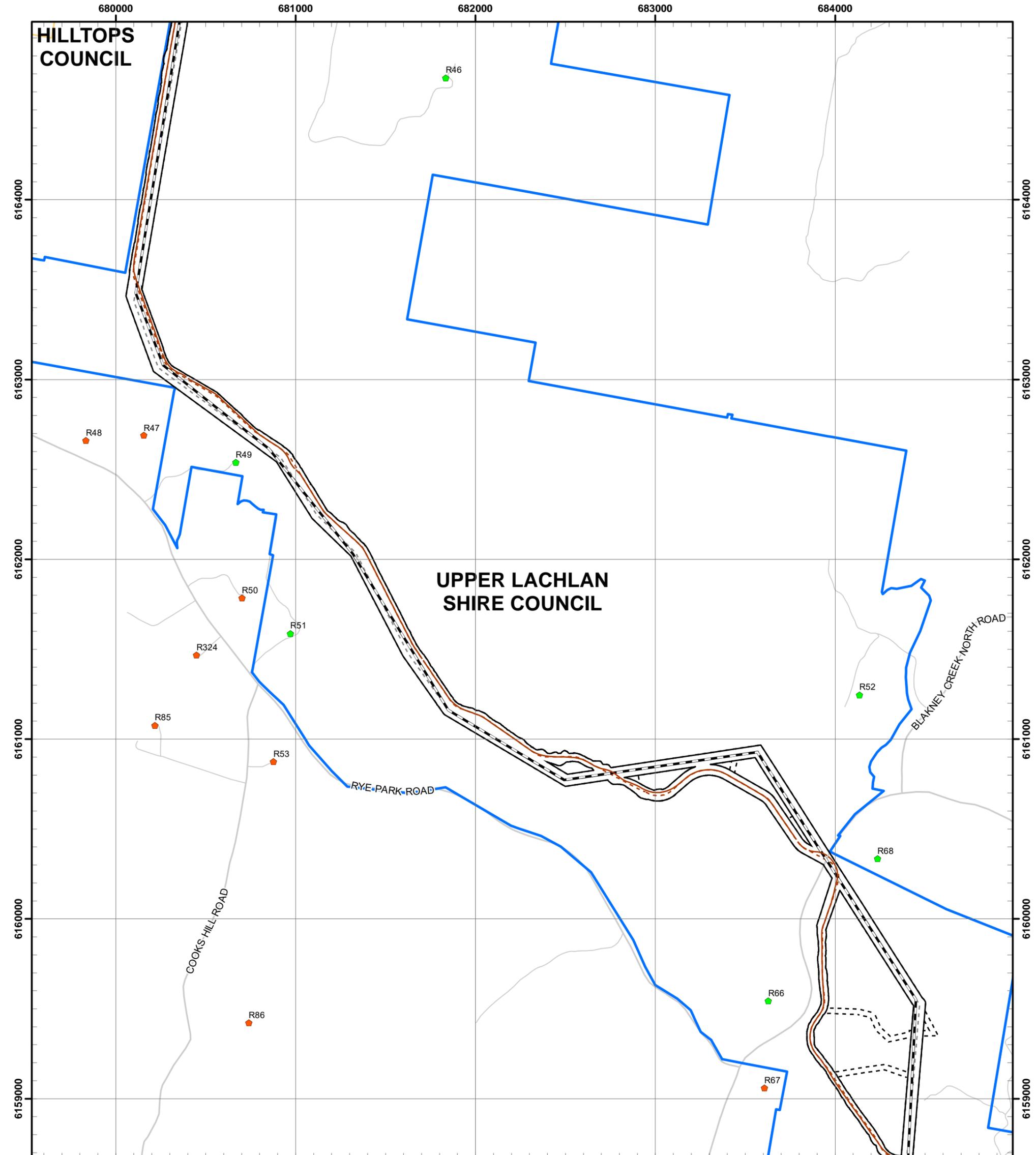
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Completed Layout	Approved Project	Local Government Area
Wind Turbine Layout	Wind Turbine Layout	Local Government Area
Permanent Met Masts	Micro-siting Areas	Transgrid Transmission Line (330kV)
Transmission Line (33kV)	Permanent Met Masts	Project Boundary
Transmission Line (330kV)	Transmission Line (33kV)	
Underground Cable (33kV)	Transmission Line (Up to 330kV)	
Access Tracks	Underground Cable (33kV)	
Connection Substation	Access Tracks	
Collector Substation	Collector Substation	
O&M Facility	Connection Substation	
Construction Compounds	O&M Facilities	
Batch Plants	Temporary Construction Compounds	
Laydown Areas	Temporary Batch Plants	
Development Corridor	Temporary Laydown Areas	
	Development Corridor	
	Development Corridor - Permanent Met Masts	

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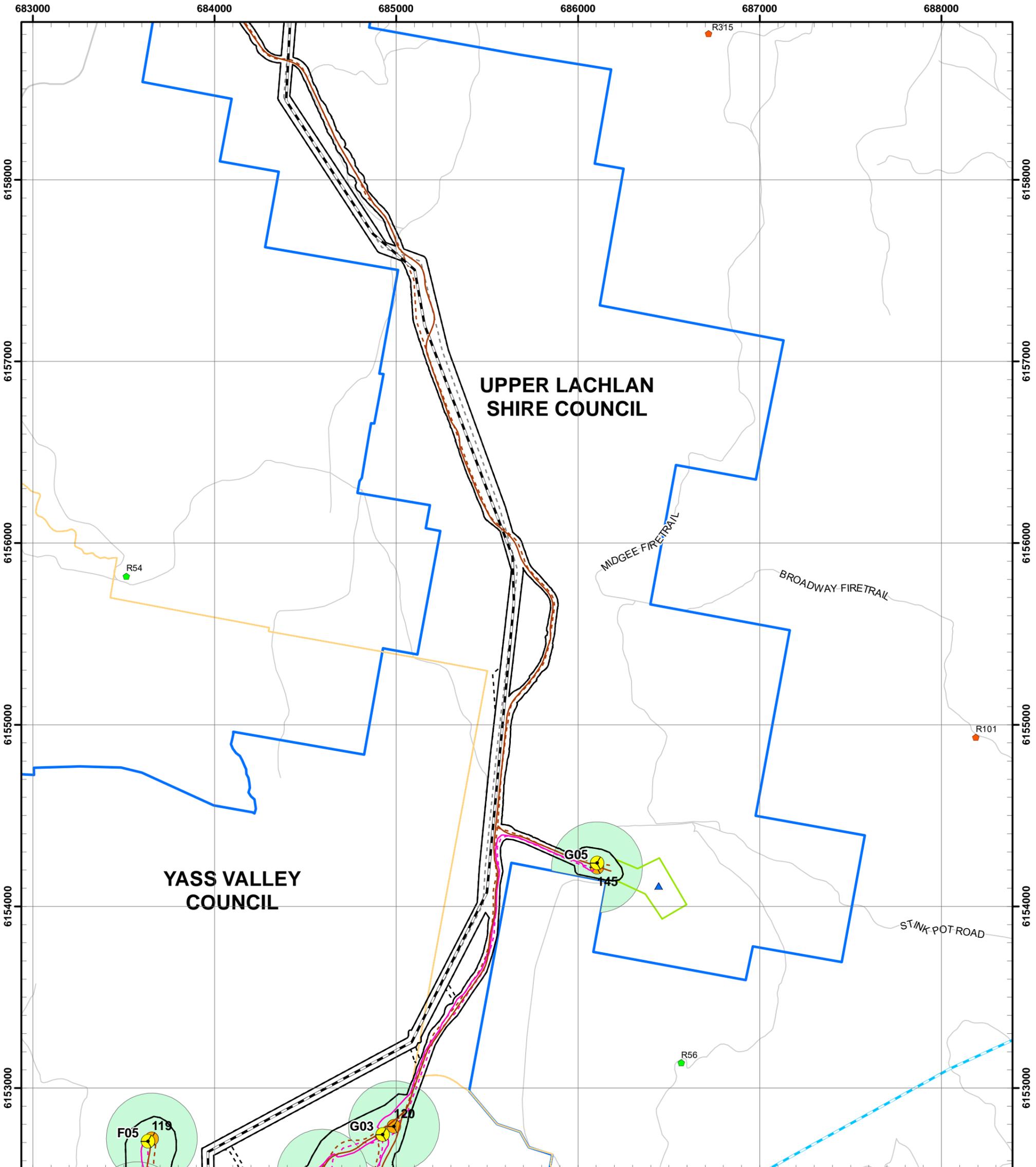
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Completed Layout	Approved Project	Local Government Area
Wind Turbine Layout	Wind Turbine Layout	Local Government Area
Permanent Met Masts	Micro-siting Areas	Transgrid Transmission Line (330kV)
Transmission Line (33kV)	Permanent Met Masts	Project Boundary
Transmission Line (330kV)	Transmission Line (33kV)	
Underground Cable (33kV)	Transmission Line (Up to 330kV)	
Access Tracks	Underground Cable (33kV)	
Connection Substation	Access Tracks	
Collector Substation	Collector Substation	
O&M Facility	Connection Substation	
Construction Compounds	O&M Facilities	
Batch Plants	Temporary Construction Compounds	
Laydown Areas	Temporary Batch Plants	
Development Corridor	Temporary Laydown Areas	
	Development Corridor	
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YASS VALLEY COUNCIL

UPPER LACHLAN SHIRE COUNCIL

MIDGE FIRETRAIL

BUSHS ROAD

COOLALIE ROAD

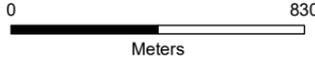
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- Wind Turbine Layout
  - Permanent Met Masts
  - Transmission Line (33kV)
  - Transmission Line (330kV)
  - Underground Cable (33kV)
  - Access Tracks
  - Connection Substation
  - Collector Substation
  - O&M Facility
  - Construction Compounds
  - Batch Plants
  - Laydown Areas
  - Development Corridor

- Approved Project**
- Wind Turbine Layout
  - Micro-siting Areas
  - Permanent Met Masts
  - Transmission Line (33kV)
  - Transmission Line (Up to 330kV)
  - Underground Cable (33kV)
  - Access Tracks
  - Collector Substation
  - Connection Substation
  - O&M Facilities
  - Temporary Construction Compounds
  - Temporary Batch Plants
  - Temporary Laydown Areas
  - Development Corridor
  - Development Corridor - Permanent Met Masts

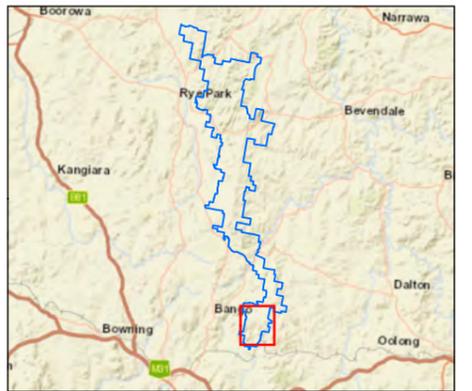
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- Transgrid Transmission Line (330kV)
- Project Boundary



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# Rye Park Wind Farm

## Infrastructure Changes

