



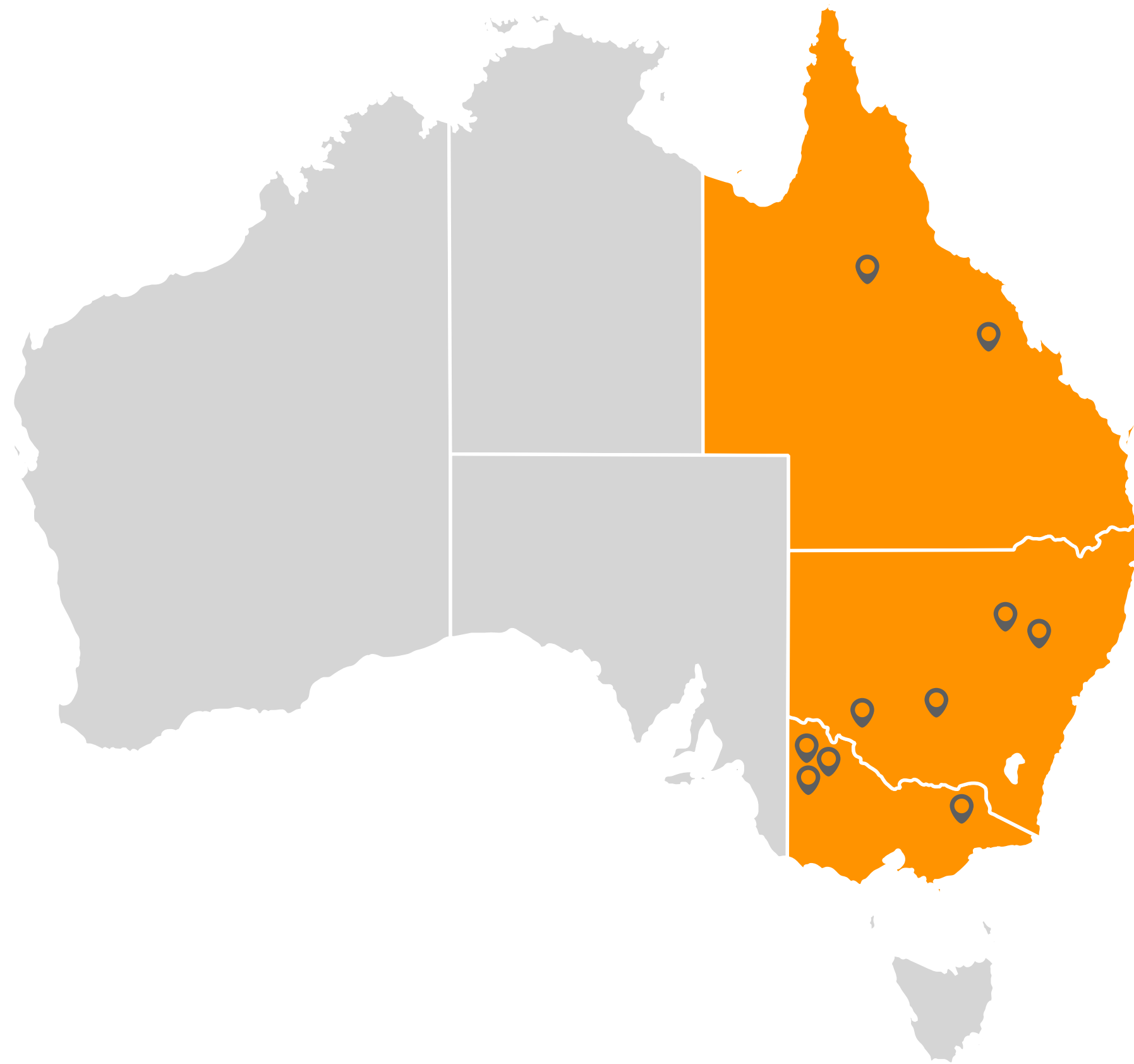
Orange Grove Sun Farm

Orange Grove Sun Farm Pty Ltd

OUR PROJECTS

WE FARM THE SUN TO PRODUCE SOLAR ENERGY

1.2 GW



Queensland

22.5 MW Hughenden Sun Farm

36.0 MW Middlemount Sun Farm

New South Wales

140 MW Hay Sun Farm

105 MW Orange Grove Sun Farm

115 MW Hillston Sun Farm

346 MW Limondale Sun Farm

Victoria

112 MW Karadoc Sun Farm

110 MW Wemen Sun Farm

106 MW Yatpool Sun Farm

140 MW Glenrowan West Sun Farm



Orange Grove Sun Farm

Gunnedah, NSW



Project Location

Gunnedah, NSW

The Project Site is located approximately 12km north-east of Gunnedah in the Gunnedah local government area, within an 817 ha site.

The Project Site is relatively flat, sloping gently from east to west with the lowest point in the south-west.





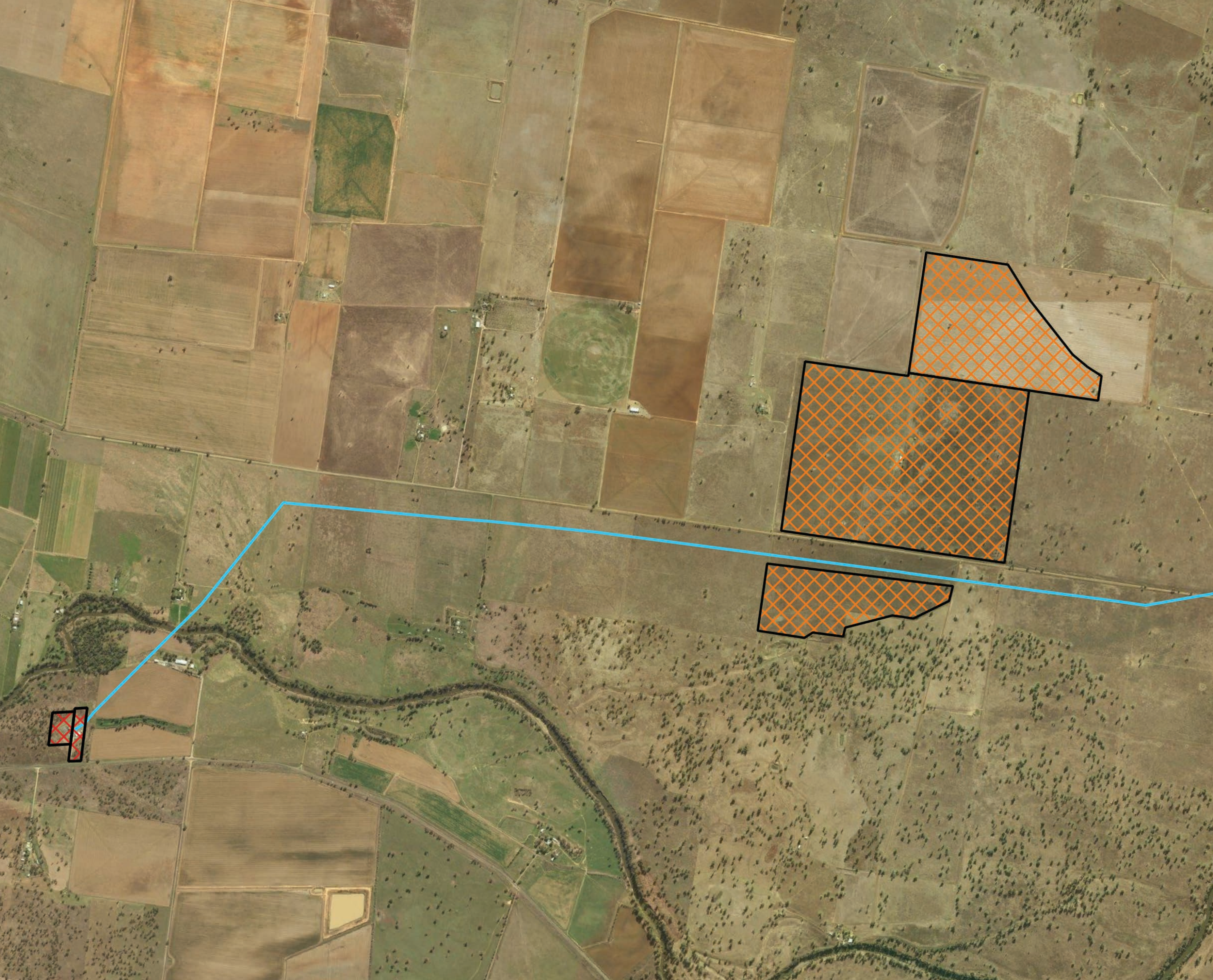
Site Location

Gunnedah, NSW

The Development Footprint is approximately 248ha is divided by Orange Grove Road into two portions, northern and southern.

The land surrounding the Project Site is zone RU1 and is predominantly used for grazing and cropping.

The Namoi River is approximately 2km south of the development footprint.





Why we selected the Site

- Minimal vegetation removal
- Minimal biodiversity impact
- Accessibility to electrical grid
- Solar yield
- Minimal visual impact
- Minimal heritage impact
- Access to major transport routes
- Compatible with landowners current land use and future planning



PROJECT TIMELINE

ORANGE GROVE SUN FARM



PROJECT TIMELINE

ORANGE GROVE SUN FARM



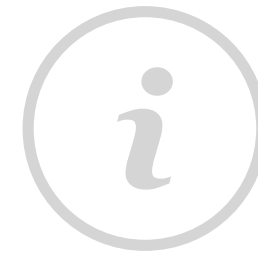
EIS Public Exhibition

Orange Grove Sun Farm



PERIOD

DPE publicly exhibited the EIS from 6 June 2018 until 5 July 2018



TOTAL SUBMISSIONS

DPE received a total of 86 submissions during the exhibition period



GOVERNMENT AGENCIES

9 Government agencies submitted comments. Gunnedah Shire Council supports the project and none of the other Government agencies objected to the project.



PUBLIC

Of the 76 public comments that were received, 66 objected to the project, 10 supported and 1 passed general comment. 53 of these submissions were from the community members residing more than 50km from the project.



SPECIAL INTEREST

1 local Special Interest Group (Namoi Pistol Club) submitted comments.

EIS Public Exhibition

Orange Grove Sun Farm

DPE identified two key topics from the public submissions:



Flooding



Land Use

Other topics DPE identified from the public submissions:



Amenity



Biodiversity



Water & Soil



Consultation

EIS Public Exhibition

Orange Grove Sun Farm

Distribution of Public Submissions

Submitters	Object	Support	Comment	Total
< 5 km	5	3	0	8
5 – 10 km	1	0	0	1
10 – 50 km	9	4	1	14
> 50 km	50	3	0	53
TOTAL	65	10	1	76

Source: Department of Planning and Environment

DISTRIBUTION OF PUBLIC SUBMISSIONS

DPE Public Exhibit of EIS

Orange Grove Sun Farm

LEGEND

- Single public submission expressing an objection to the Development
- Single public submission expressing support of the Development

Note: due to the way public comments are collected and distributed by DPE, all location data is approximate and indicative.

DISTRIBUTION OF PUBLIC SUBMISSIONS

DPE Public Exhibit of EIS



Notes:

- due to the way public comments are collected and distributed by DPE, all location data is approximate and indicative.
- Gunnedah is approximately 12km from the Project Site



Project Revisions

Gunnedah, NSW

PROJECT REVISIONS

Orange Grove Sun Farm



2018

Layout submitted with EIS



2019

DPE Approved Layout



2019

Indicative PV Layout



Revision

Removed all infrastructure from first order watercourse

Assessed flows in the first order water course against the draft Floodplain Management Plan for the Upper Namoi Valley floodplain and as a result removed all infrastructure from the first order watercourse (including an addition of an buffer)



Revision

Overall area reduction

Reduced the total area of the Development Footprint by approximately 5 ha

Reduced the area of the Development Footprint located north of Orange Grove Road by approximately 41 ha

Increased the area of the Development Footprint located south of Orange Grove Road by approximately 36 ha

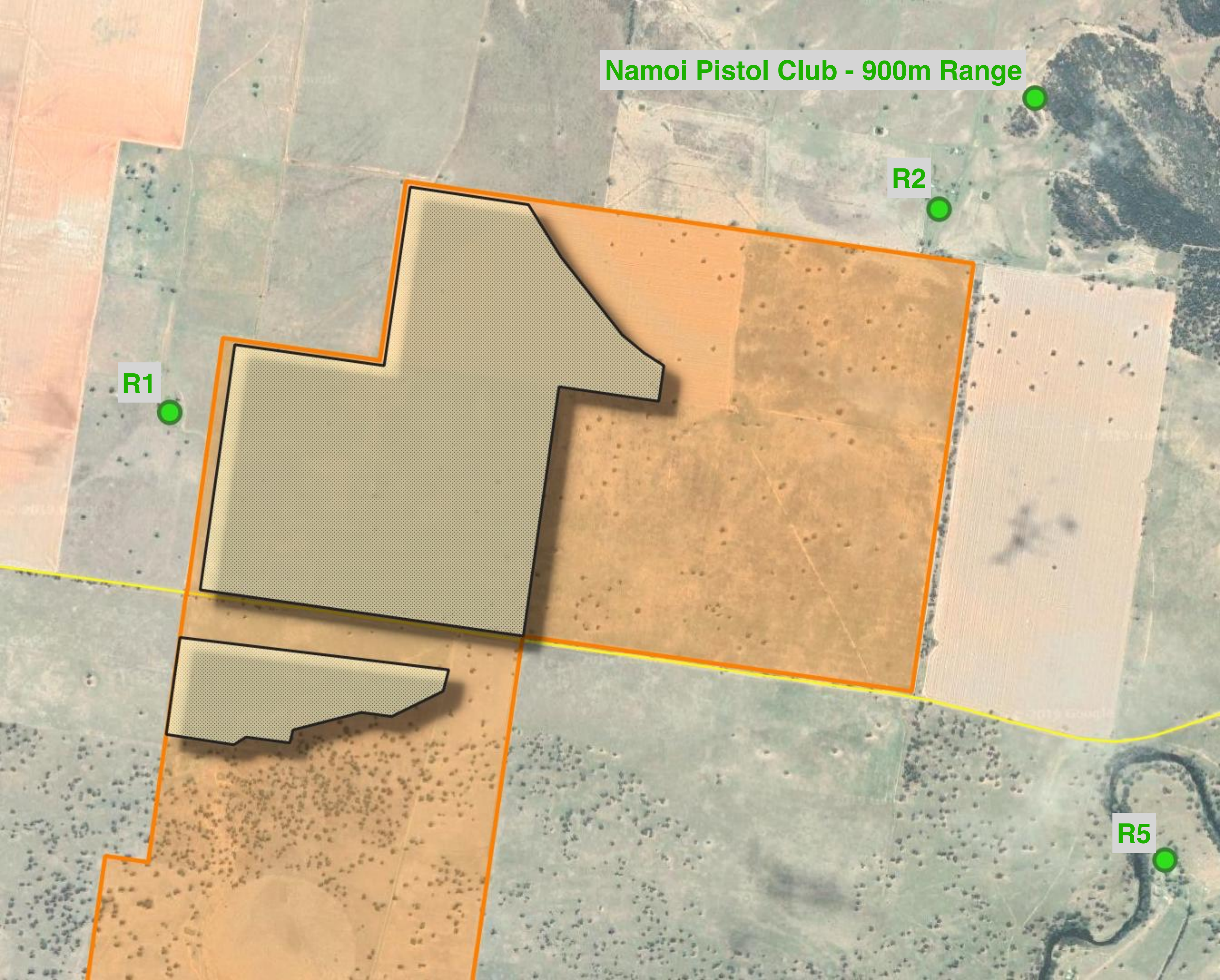


Revision

Decreased Biodiversity Impact

Reduced the total number of mature trees required to be cleared within the revised development footprint by approximately 18.

The vegetation integrity score of the revised development site remains at less than 15 and only disturbs native vegetation of low quality (BAM (OEH 2017)).



Namoi Pistol Club - 900m Range

R2

R1

R5



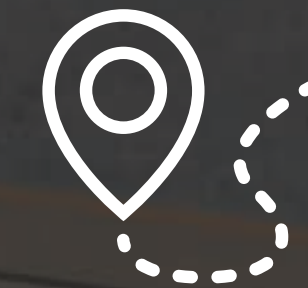
Receptor Map

Location of R1, R2 and
The Namoi Pistol Club 900m Range

Receptor R1 is located approximately 200 m to the west of the Development Footprint

Receptor R2 is located approximately 1.3 km to the northeast of the Development Footprint

The Namoi Pistol Club's 900 m Range, is located approximately 1.8 km to the northeast



Revision

Infrastructure Setback to R1



Increased the distance between receptor R1's property boundary and the infrastructure boundary by 50 m

Distance between receptor R1 and the infrastructure boundary is now approximately 200 m



SITE PHOTO OF R1

SITE PHOTO

Photo was taken from SW corner of western side of the development area located north of Orange Grove Road, looking north. 50 m setback and vegetation screening will be located in this general area.





Revision

Vegetative Screening

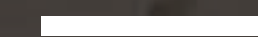
Establishment of vegetative screening along the boundary in common with receptor R1 and the western edge of the Development Footprint





Revision

Setback to R1 Property



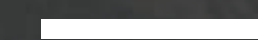
Established a 20 m setback for project infrastructure along the balance of the common boundary between the project and receptor R1's property





Revision

Setback to R2



Increased the separation distance between receptor R2 and nearest project related infrastructure by approximately 500 m to an approximate total of 1.3 km

Retained approximately 18 trees between receptor R2 and the Development Footprint

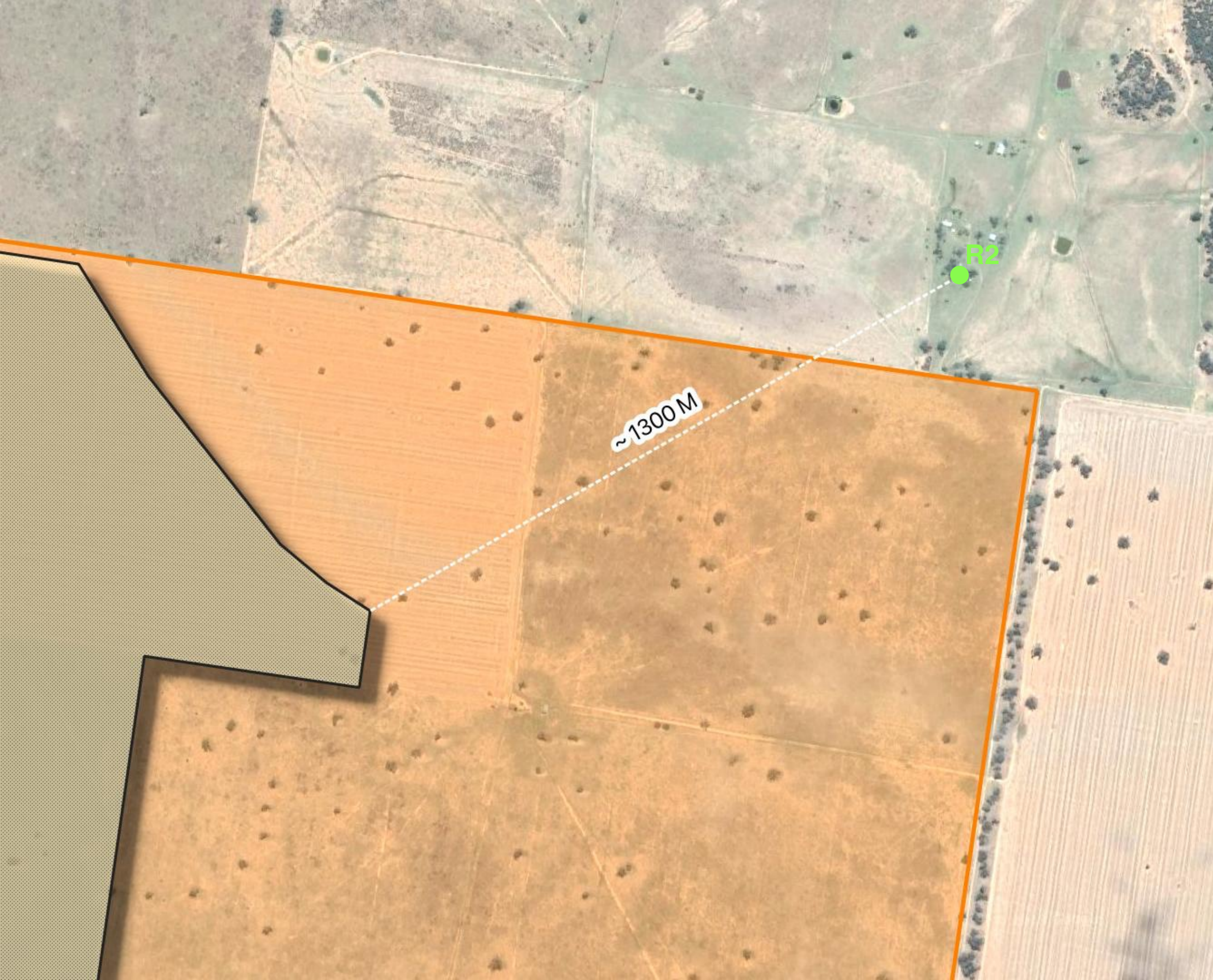


PHOTO FROM R2 BALCONY

Site Photo

Photo taken from receptor R2’s balcony,
looking towards the Development Footprint
which is approximately 1.3 km to the west





Revision

Removed common boundary to R2

Removed the common boundary between the Development Footprint and receptor R2's property, resulting in a minimum separation to project related infrastructure of approximately 260 m



Revision

Increased setback to Namoi Pistol Club



Namoi Pistol Club

R2

~1,800 M

Increased the separation distance between the Namoi Pistol Club's 900 m Range and the nearest project related infrastructure by approximately 550 m to an approximate total of 1.8 km

Namoi Pistol Club - 900m Range

Site Photos

The revised development footprint has increased setback to the firing line of the Namoi Pistol Clubs 900 m Range, to approximately 1.8km





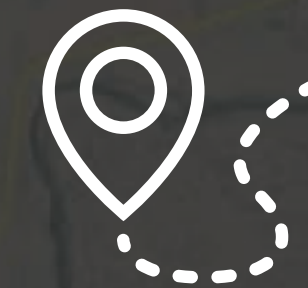
Further Assessment

Glint and Glare Assessment

Commissioned SMEC to preform a Glare and Glint Analysis of the revised Development Footprint.

Summary concluded that the risk of glint and glare related impacts being experienced by either residential receptors, gun club patrons or motorists travelling along Orange Grove road is considered nil.





Further Assessment

Dust Management

Committed to developing a Traffic Management Plan which includes dust management along the unsealed section of Orange Grove Road.





Further Assessment

Protection of Heritage Items

Committed to ensuring that the development avoids impacts to two potential scarred trees located outside of the Development Footprint

LEGEND



Potential Scarred Tree



Isolated Artefact - Stone Flake



Further Assessment

Upgrade and Maintain Intersection

Upgrade Old Blue Vale Road for a minimum of 100m from its intersection with both Kelvin Road and Blue Vale Road.

Removing loose gravel material at the intersection of Old Blue Vale Road and Kelvin Road.







Thank You

Orange Grove Sun Farm

www.overlandsunfarming.com.au